ORDER NO. BSD04030090

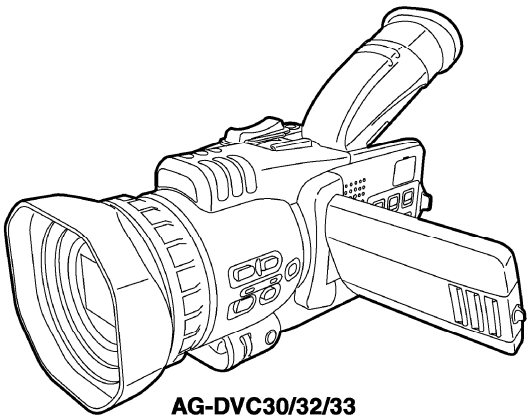
D21

Service Manual

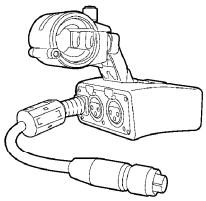
Digital Video Camera Recorder / XLR Microphone Adapter

Mini DV

AG-DVC30P / AG-DVC30E / AG-DVC32EN / AG-DVC33MC / AG-MYA30G



AG-DVC30/32/33



AG-MYA30G

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Please refer to the Operating Instructions in the appendix

folder. / (Go to Appendix List)

Panasonic

AG-DVC30P

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

indicates safety information.

Ambient operating temperature
32°F to 104°F (0°C to 40°C)
Ambient operating humidity
10% to 85% (no condensation)
Weight
2.31 lb (1.05 kg)
(excluding battery and accessories)
Dimensions (W×H×D)
4 3/8×4 5/8×10 inches (110×116×253 mm)
The height increases to 6 5/16 inches (160 mm) when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
525i (NTSC)
Shooting mode
60i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.812 mm/sec.
LP mode: 12.565 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)

Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 410,000,
Number of effective pixels: 380,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom,
F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Color separation optical system
Prism system
ND filter
Interlocked with iris, auto ON/OFF
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/4, 1/8, 1/15, 1/30 sec.
Regular shutter speeds:
1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/60.3 to 1/250 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50 IRE video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD color monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD color viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analog composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Power Source:
110/120/220/240 V AC, 50/60 Hz
Power Consumption:
18 W

indicates safety information.

Weight
0.35 lb (0.16 kg)
Dimensions (W×H×D)
2 13/16×1 13/16×4 5/8 inches
(70×44.5×116 mm)

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16
(1600 mAh: equivalent to accessory battery)
CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh)
AC adapter kit
AG-B15 (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLA

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

AG-DVC30E

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

indicates safety information.

Ambient operating temperature
0°C to 40°C
Ambient operating humidity
10% to 85% (no condensation)
Weight
1.05 kg
(excluding battery and accessories)
Dimensions (W×H×D)
110×116×253 mm
The height increases to 160 mm when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
625i (PAL)
Shooting mode
50i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.831 mm/sec.
LP mode: 12.568 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.3 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analogue composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 470,000,
Number of effective pixels: 440,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom, F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Colour separation optical system
Prism system
ND filter
Interlocked with iris, ON/OFF switched automatically
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/3, 1/6, 1/12, 1/25 sec.
Regular shutter speeds:
1/50, 1/60, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/50.2 to 1/248 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50% video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD colour viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[AC ADAPTER]

Input:
100 – 240 V AC, 50/60 Hz, 20 W
Output:
Video camera: DC 7.9 V, 1.4 A (max.)
Charge: DC 8.4 V, 1.2 A

indicates safety information.

Weight
0.16 kg
Dimensions (W×H×D)
70×44.5×116 mm

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16S
(1600 mAh: equivalent to accessory battery)
CGP-D28S (2800 mAh)
CGA-D54S (5400 mAh)
AC adapter kit
AG-B15E (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLC

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

AG-MYA30G

Specifications

Ambient operating temperature:
32°F to 104°F (0°C to +40°C)
Ambient operating humidity:
10% to 85% (no condensation)
Weight:
0.407 lb (185 g)

0.407 lb (185 g)
Excluding microphone holder
Dimensions (W×H×D):
2 3/4×1 1/2×3 inches
(69.6×36.6×75 mm)
Excluding microphone holder

XLR connector (INPUT1, INPUT2):
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (setting selected using ATT switch)

SAFETY PRECAUTIONS

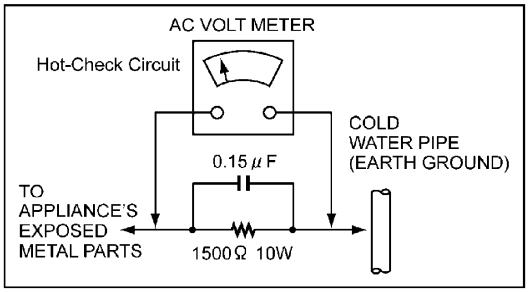
GENERAL GUIDELINES

1. **When servicing, observe the original lead dress. If a short / circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5M Ω .**

Figure1



LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. / Do not use an isolation transformer for this check.**

2. **Connect a 1.5kΩ , 10W resistor, in parallel with a 0.15 μF capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverses the AC plug in the AC outlet repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF indication on the PCB.

Caution:

1. **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50-70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20°F (370±10°C).**
2. **Pb free solder will tend to splash when heated too high (about 1100°F /600°C).**

ELECTROSTATICALLY SENSITIVE (ES) DEVICES
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical

ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. / Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. / (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. / CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**
8. **Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage**

an ES device).

X-RADIATION

WARNING

1. **The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.**
2. **When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.**

Note :
It is important to use an accurate periodically calibrated high voltage meter.

3. **Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.**

AG-DVC30P

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:
Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:
THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

FCC Note:
This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:
To assure continued FCC emission limit compliance, the user must use only shielded interface cable when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

CAUTION:
Danger of explosion or fire if battery is mistreated.
- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 140°F (60°C).
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller
- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Notice (U.S.A.only):
This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components.
Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org.>

Camera-Recorder
- The rating plate is on the underside of the Camera-Recorder

AC Adapter
- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

▭ indicates safety information.

AG-DVC30E

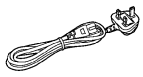
Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.
Not to be used in the U.K.



FOR U.K. ONLY
If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ▽ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

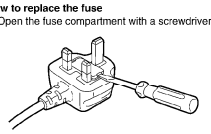
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

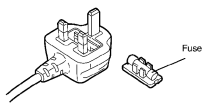
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
- Under no circumstances shoul either of these wires be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ .

How to replace the fuse
1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



indicates safety information.

IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Camera Recorder

- The rating plate is on the underside of the Camera Recorder

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

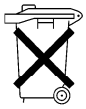
CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

indicates safety information.

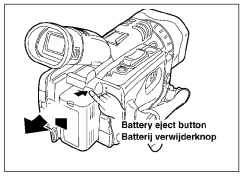
Attention/Attentie

- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.



To remove the battery/ Verwijderen van de batterij

Main Power Battery
Batterij Voor Primaire Voeding



AG-MYA30G

■ **DO NOT REMOVE COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside.
Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

indicates safety information.

1. Service Information

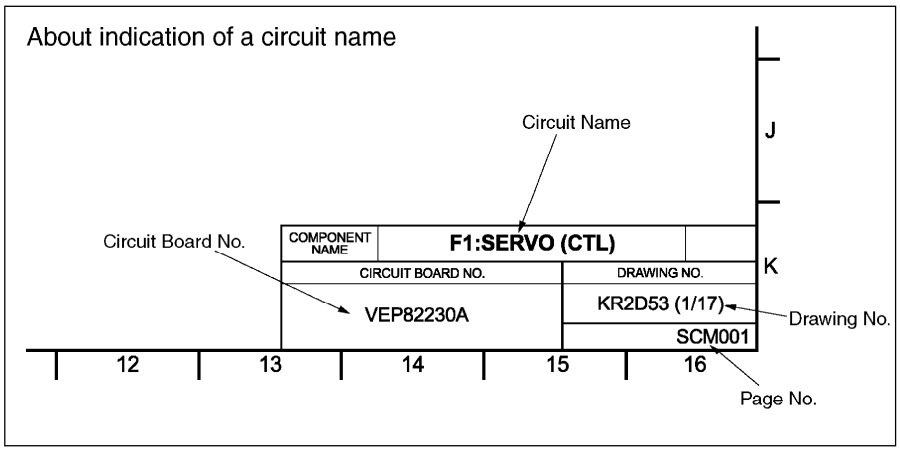
2. Disassembly Procedures

3. Mechanical Adjustment

4. Electrical Adjustment

5. Block Diagrams

6. Schematic Diagrams



NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPA SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

6.1. AG-DVC30/32/33

6.1.1. INTERCONNECTION

6.1.2. VTR (VEP03G60A/B)

6.1.3. CAMERA (VEP23598A/B)

6.1.4. POWER (VEP01952A)

6.1.5. R SIDE (VEP06F68A)

6.1.6. CAMERA OP (VEP06F64A)

6.1.7. MENU FPC (VEP001G2A)

6.1.8. FRONT (VEP06F67A)

6.1.9. MF FPC (VEP001E2A)

6.1.10. SIDE JACK FPC (VEP04861A)

6.1.11. REAR JACK (VEP04863A)

6.1.12. BATTERY (VEP01953A)

6.1.13. ZOOM FPC (VEP06F66A)

6.1.14. ZOOM CON (VEP001E3A)

6.1.15. EVF CON (VEP001E0A)

6.1.16. MIC (VEP04828A)

6.1.17. MONITOR (VEP26257B)

6.1.18. EVF A (VEP28272B), EVF B (VEP28275B), LCD OPEN(VEP001E1A), CAS OPEN (VEP001E5A)

6.1.19. TALLY (VEP001E4A), SUB REC (VEP001G1A), DC IN (VEP01957A)

6.2. AG-MYA30G

6.2.1. XLR (VEP04869A)

6.2.2. SW (VEP04870A)

6.2.3. MAIN (VEP04875A)

6.2.4. POWER (VEP01956A)

6.2.5. VR (VEP04871A)

7. Circuit Board Diagrams

NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPA SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

7.1. VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B)

7.2. CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B)

7.3. POWER C.B.A. (VEP01952A)

8. Mechanical Replacement Parts List & Exploded Views

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board unit marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When re any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the discontinuati assembly in production, it will no longer be available.**
7. **"(M)" in Remark column indicates needed in the periodical maintenance.**

9. Electrical Replacement Parts List

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board unit marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When re any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the discontinuati assembly in production, it will no longer be available.**
7. **"(M)" in Remark column indicates needed in the periodical maintenance.**

NOTE:

A list of parts is stored in data form in the CD-ROM. It is located within the folder APPENDIX/PARTS. Please use as necessary.

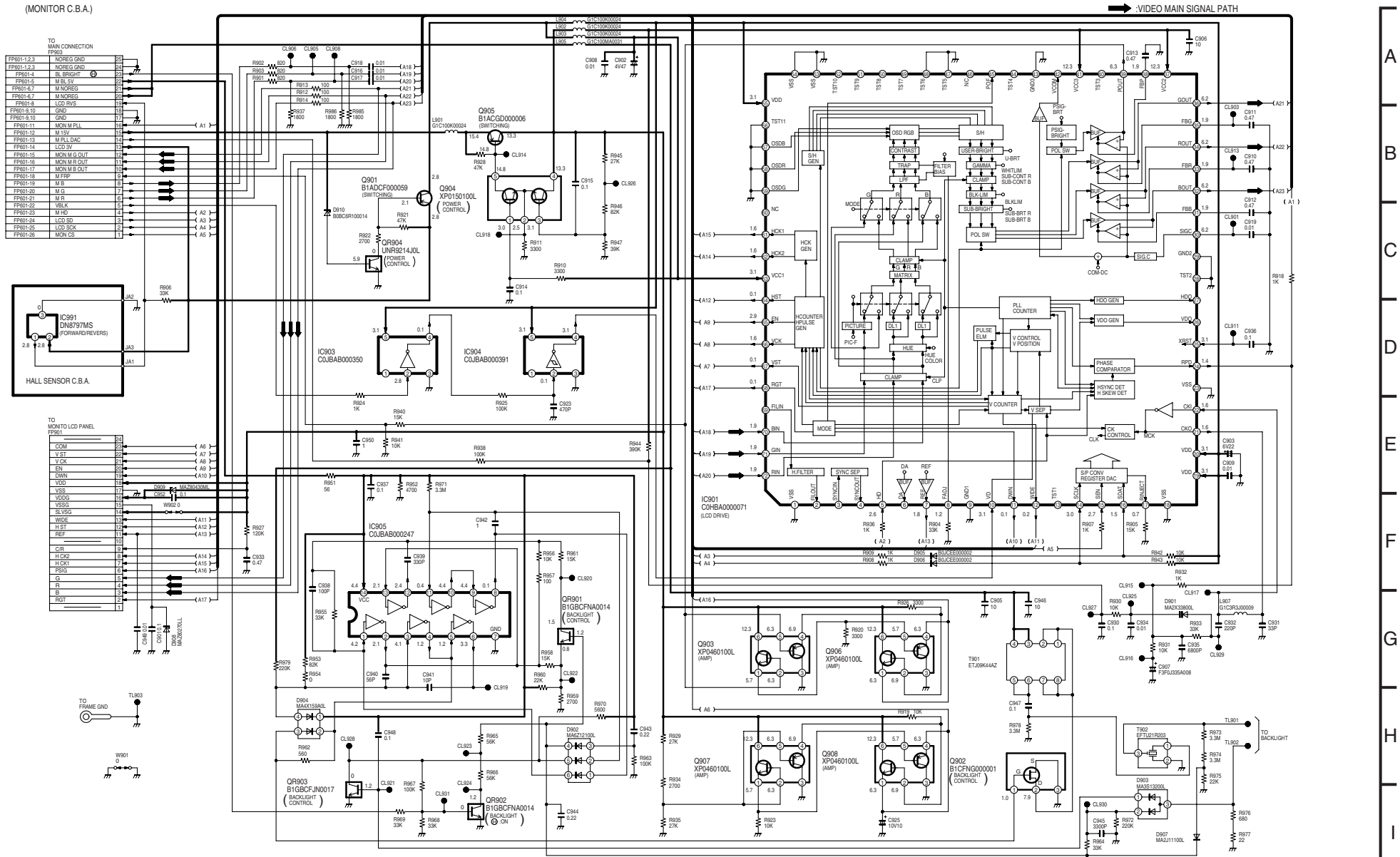
10. PDF for Printing

The PDF documents for printing consist of several files per section.Open every section (file) through a link (blue frame) on the cover.

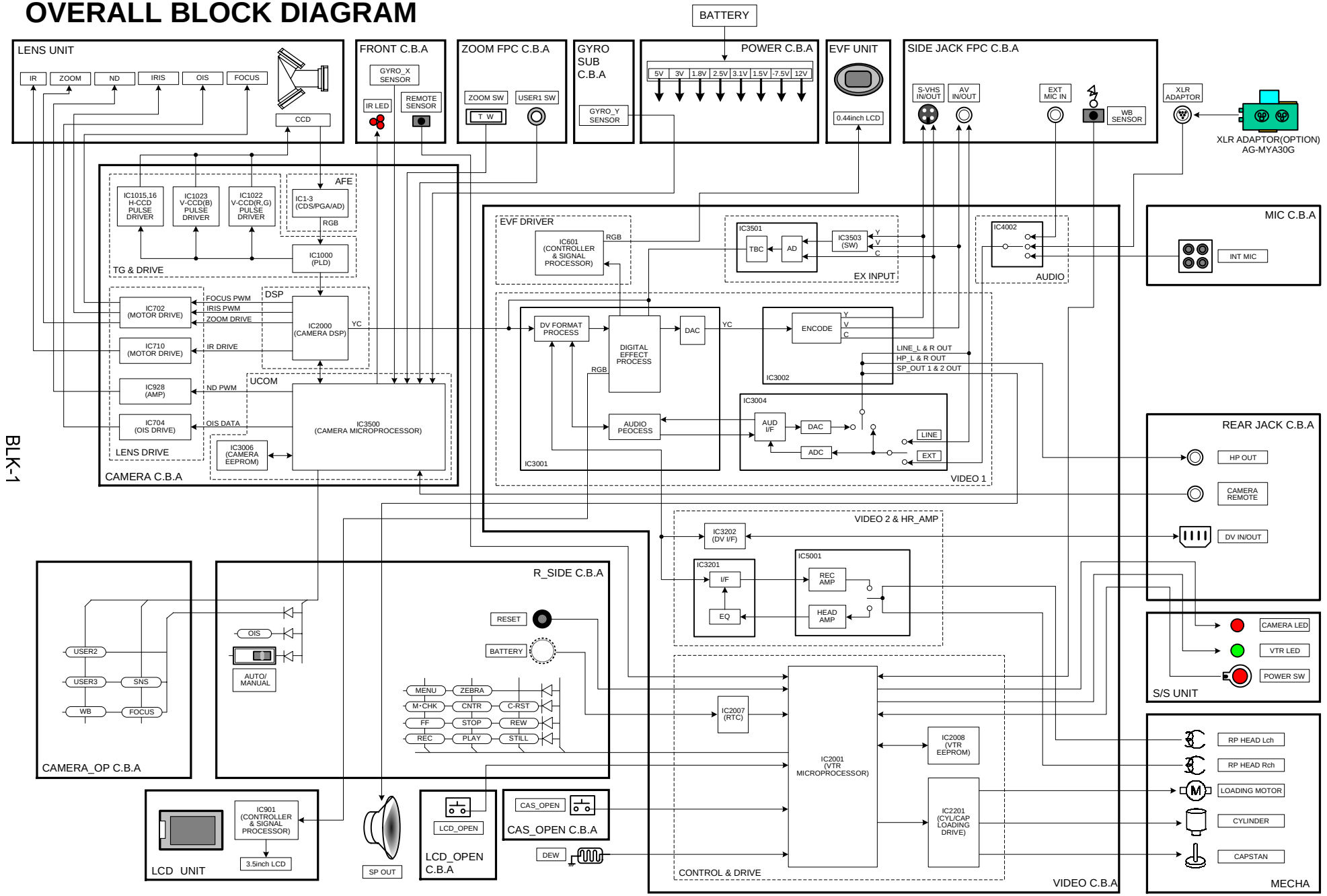
● **Setting of Acrobat Reader**

To view a link in a new window, follow the procedure below. When you operate the PDF documen printing, you can open a PDF file of each section while displaying the cover page. This is conveni view the PDF files in several sections.

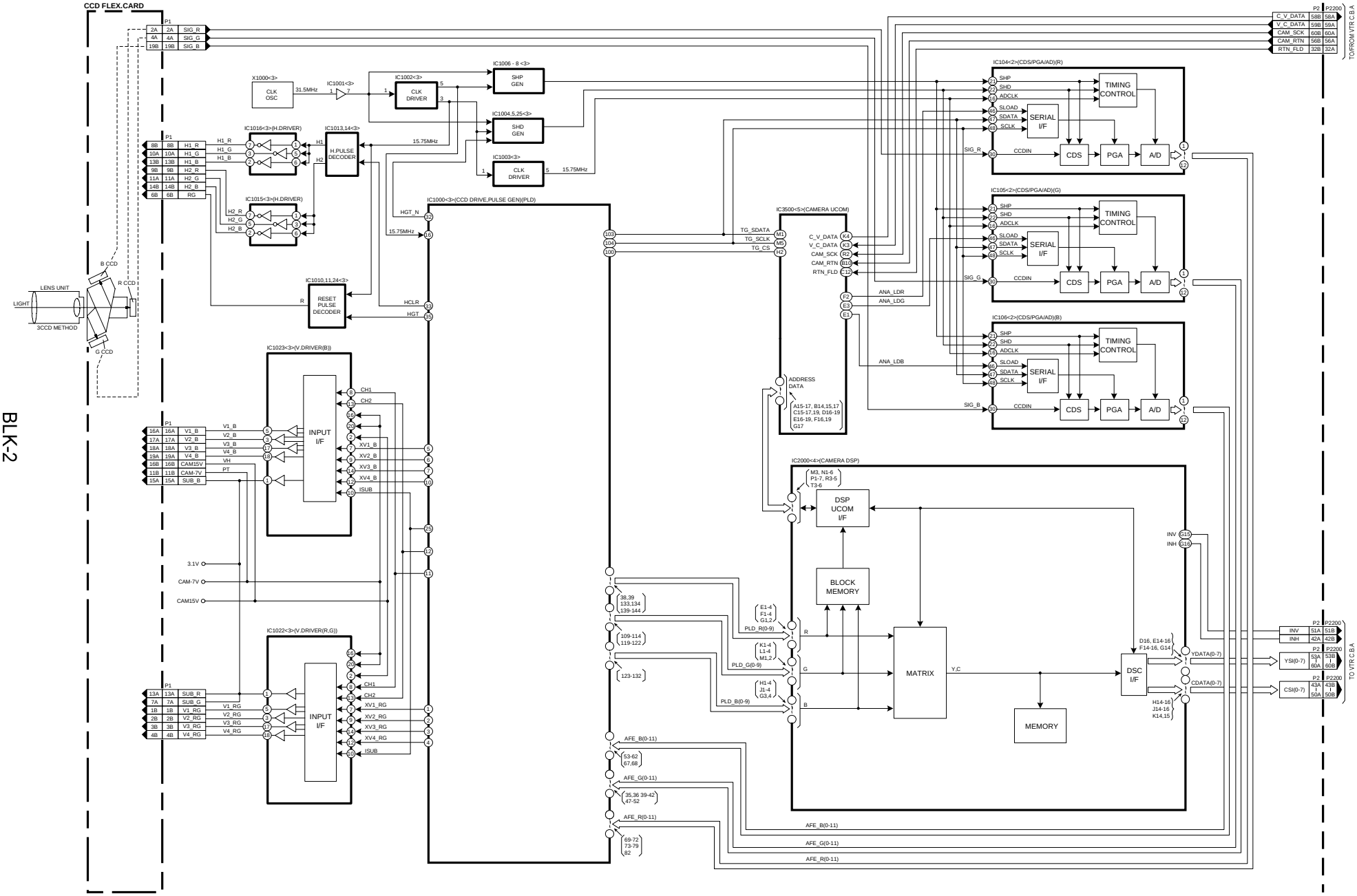
<How to set> In the [File] menu, select [Preference] - [General...] and disable [Open Cross-Doc Lir Same Window].


(MONITOR C.B.A.)
:VIDEO MAIN SIGNAL PATH
TO MAIN CONNECTION FP903
HALL SENSOR C.B.A.
IC991 DN8797MS (FORWARD/REVERS)
IC901 C0HBA0000071 (LCD DRIVE)
IC903 C0JBAB000350
IC904 C0JBAB000391
IC905 C0JBAB000247
Q901 B1ADCF000059 (SWITCHING)
Q904 XP0150100L (POWER CONTROL)
Q905 B1ACGD000006 (SWITCHING)
QR904 UNR9214J0L (POWER CONTROL)
QR901 B1GBCFNA0014 (BACKLIGHT CONTROL)
QR903 B1GBCFJN0017 (BACKLIGHT CONTROL)
QR902 B1GBCFNA0014 (BACKLIGHT ON)
Q903 XP0460100L (AMP)
Q906 XP0460100L (AMP)
Q907 XP0460100L (AMP)
Q908 XP0460100L (AMP)
Q902 B1CFNG000001 (BACKLIGHT CONTROL)
T901 ETJ09K44AZ
T902 EFTU21R203
TO MONITO LCD PANEL FP901
TO FRAME GND
TO BACKLIGHT
OSD RGB
S/H
CONTRAST
USER-BRIGHT
TRAP
GAMMA
LPF
CLAMP
BLK-LIM
SUB-BRIGHT
POL SW
MATRIX
HCK GEN
S/H GEN
HCOUNTER HPULSE GEN
PICTURE
HUE
PLL COUNTER
PULSE ELM
V CONTROL V POSITION
HDO GEN
VDO GEN
PHASE COMPARATOR
HSYNC DET H SKEW DET
V COUNTER
V SEP
CK CONTROL
H.FILTER
SYNC SEP
S/P CONV REGISTER DAC
MODE
COM-DC
SIG.C
COMPONENT NAME
MONITOR
01/01
CIRCUIT BOARD NO.
VEP26257B
DRAWING NO.
(1/1)
SCM033

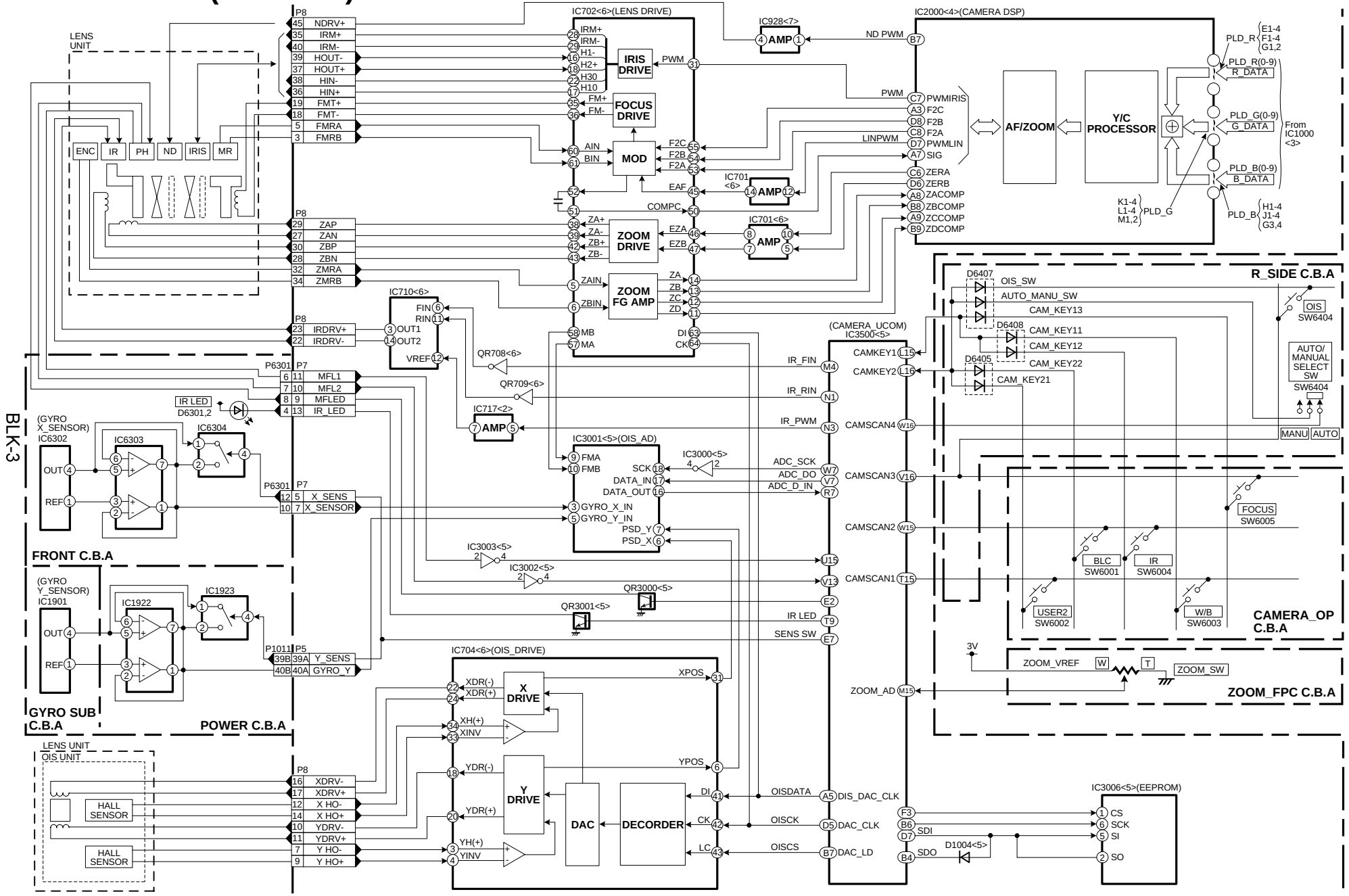
OVERALL BLOCK DIAGRAM



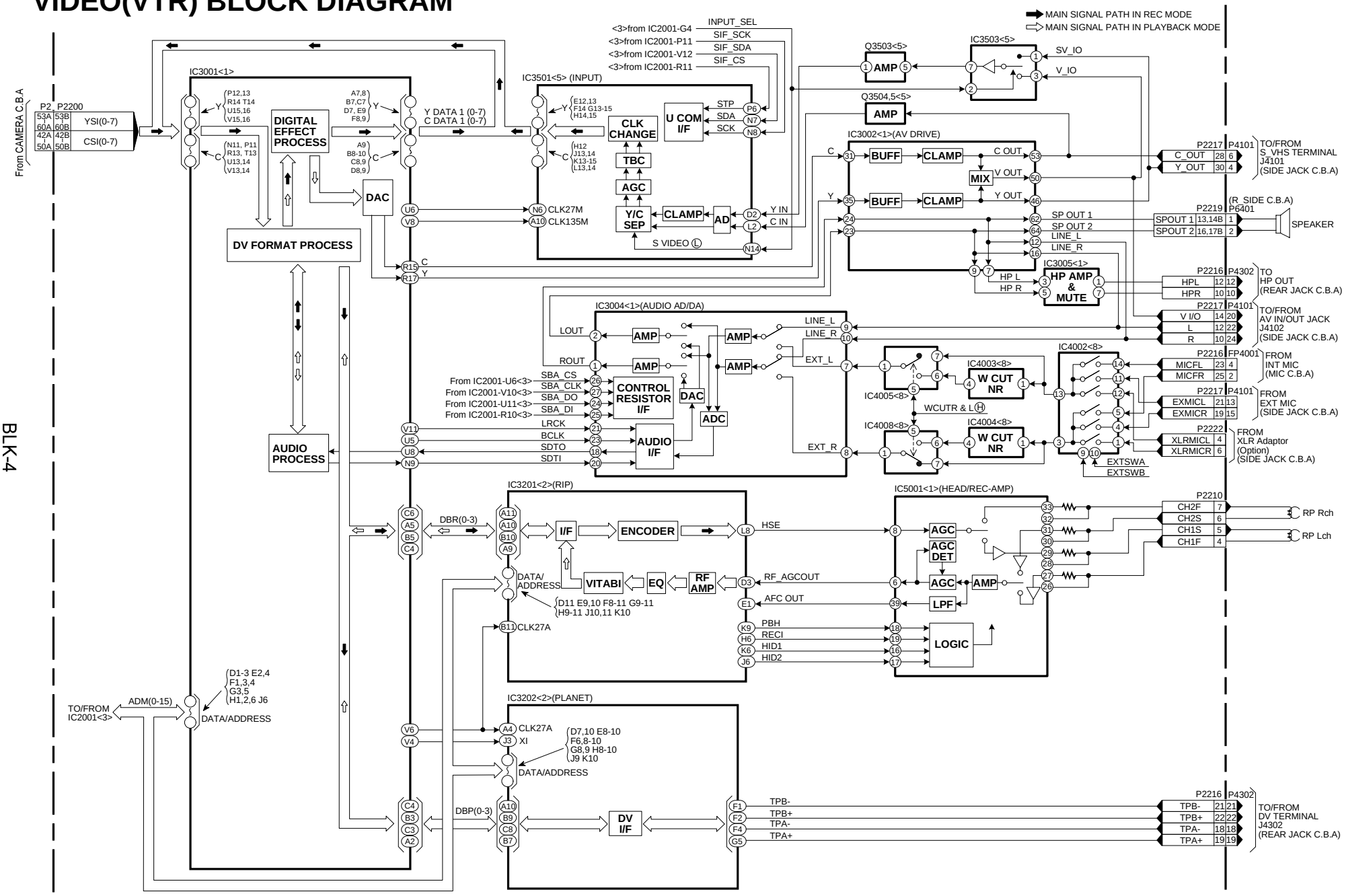
SENSOR/PROCESS(CAMERA) BLOCK DIAGRAM



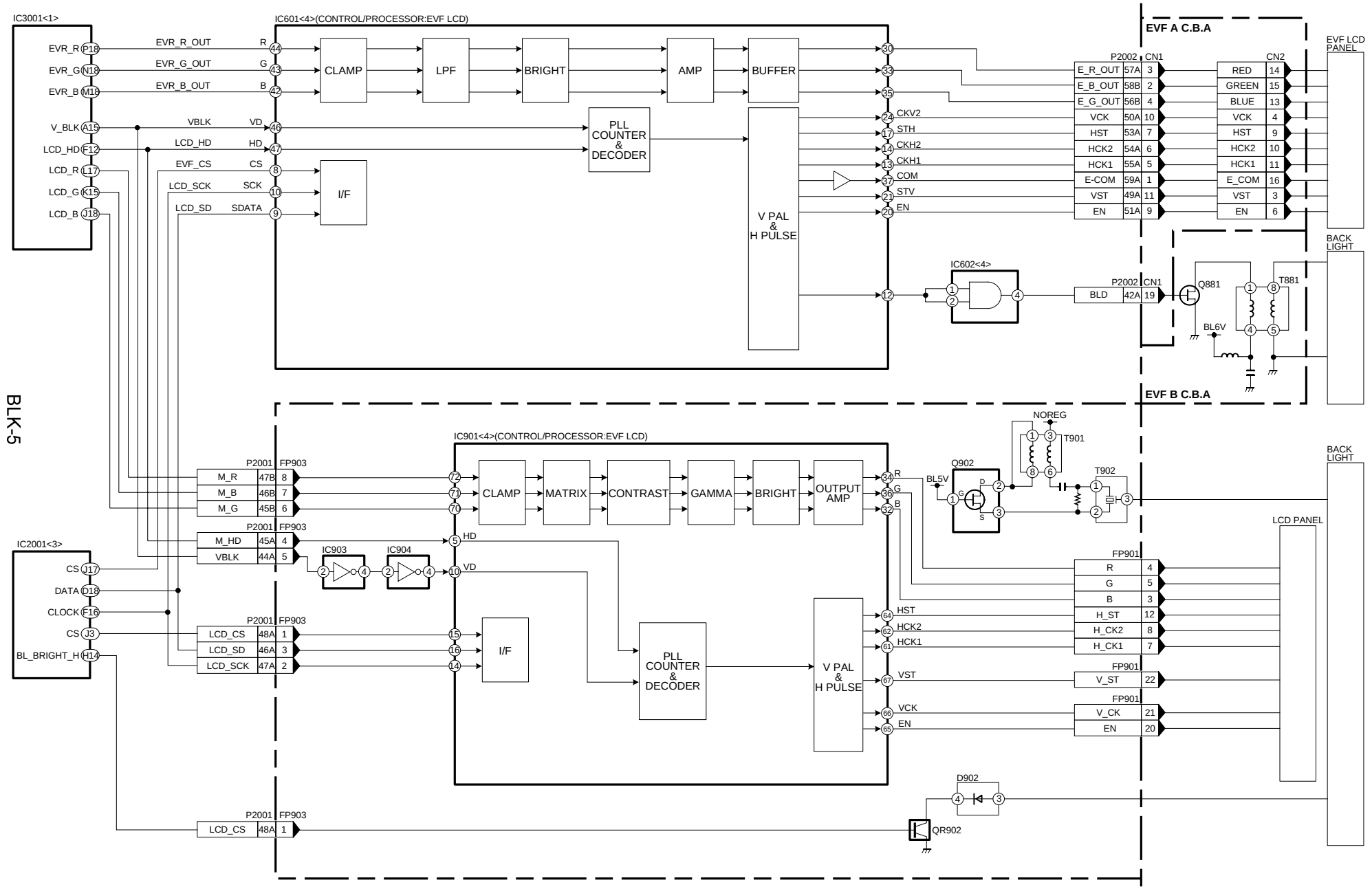
LENS DRIVE(CAMERA) BLOCK DIAGRAM



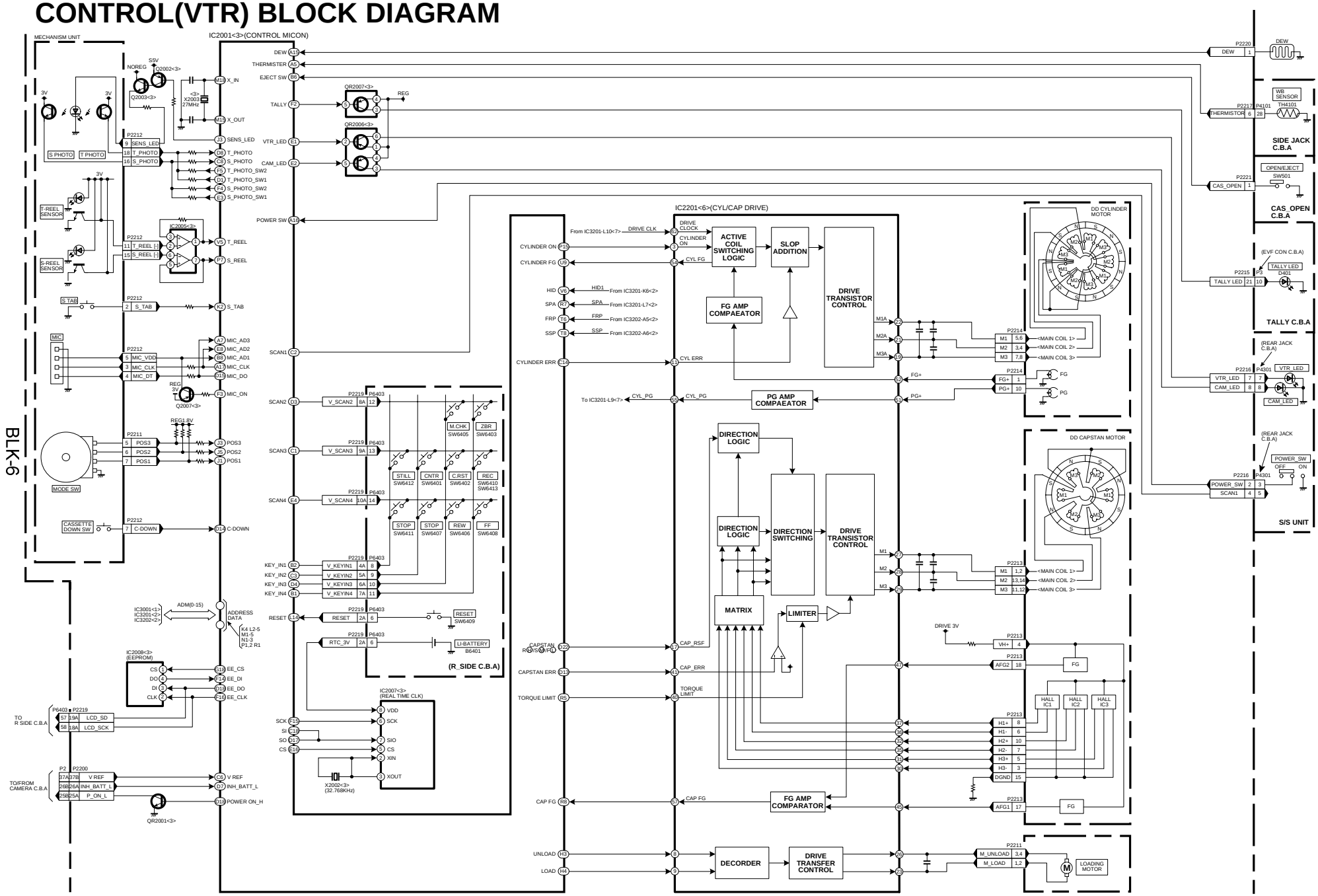
VIDEO(VTR) BLOCK DIAGRAM



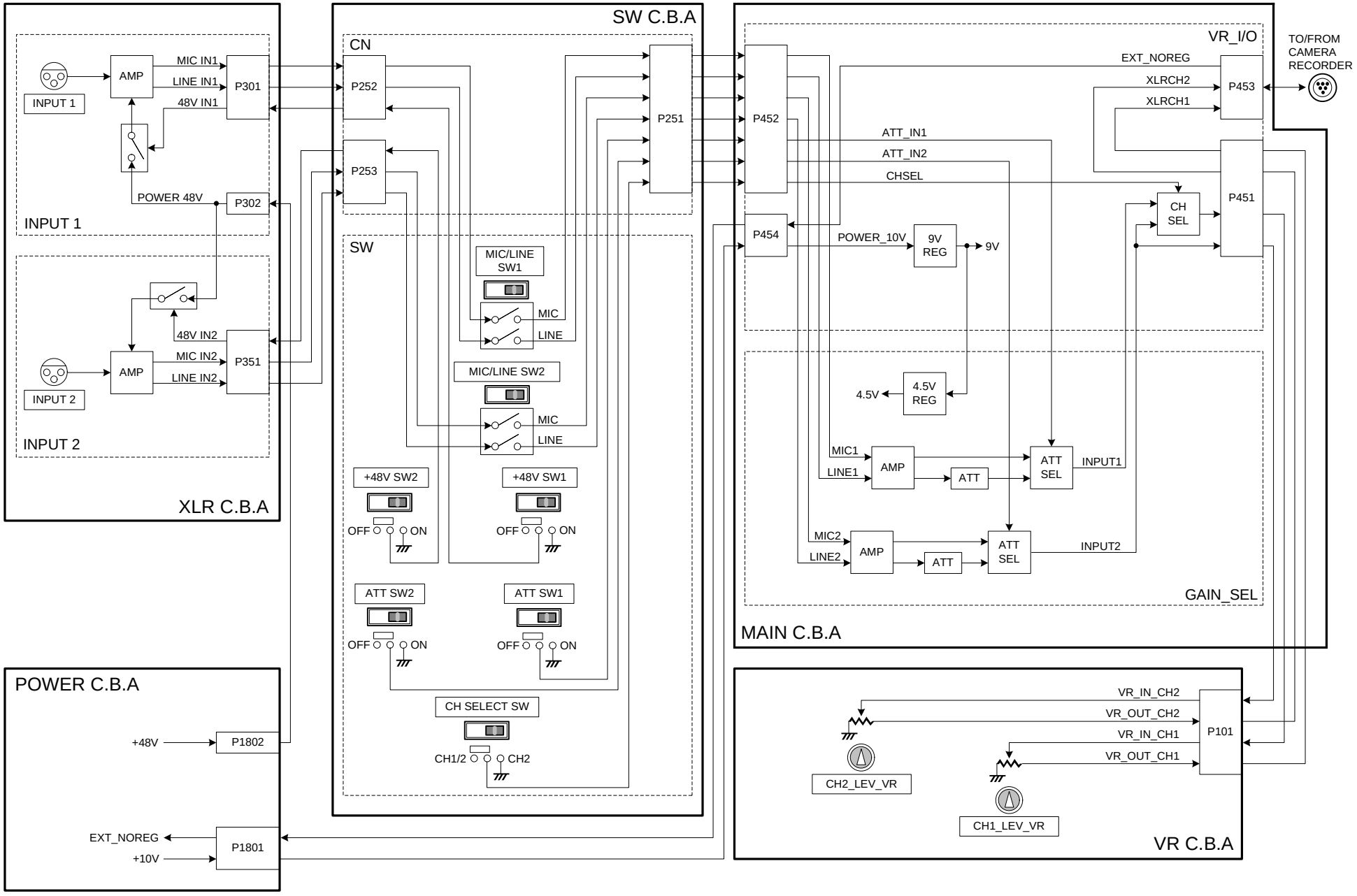
MONITOR(VTR/LCD/EVF) BLOCK DIAGRAM



CONTROL(VTR) BLOCK DIAGRAM



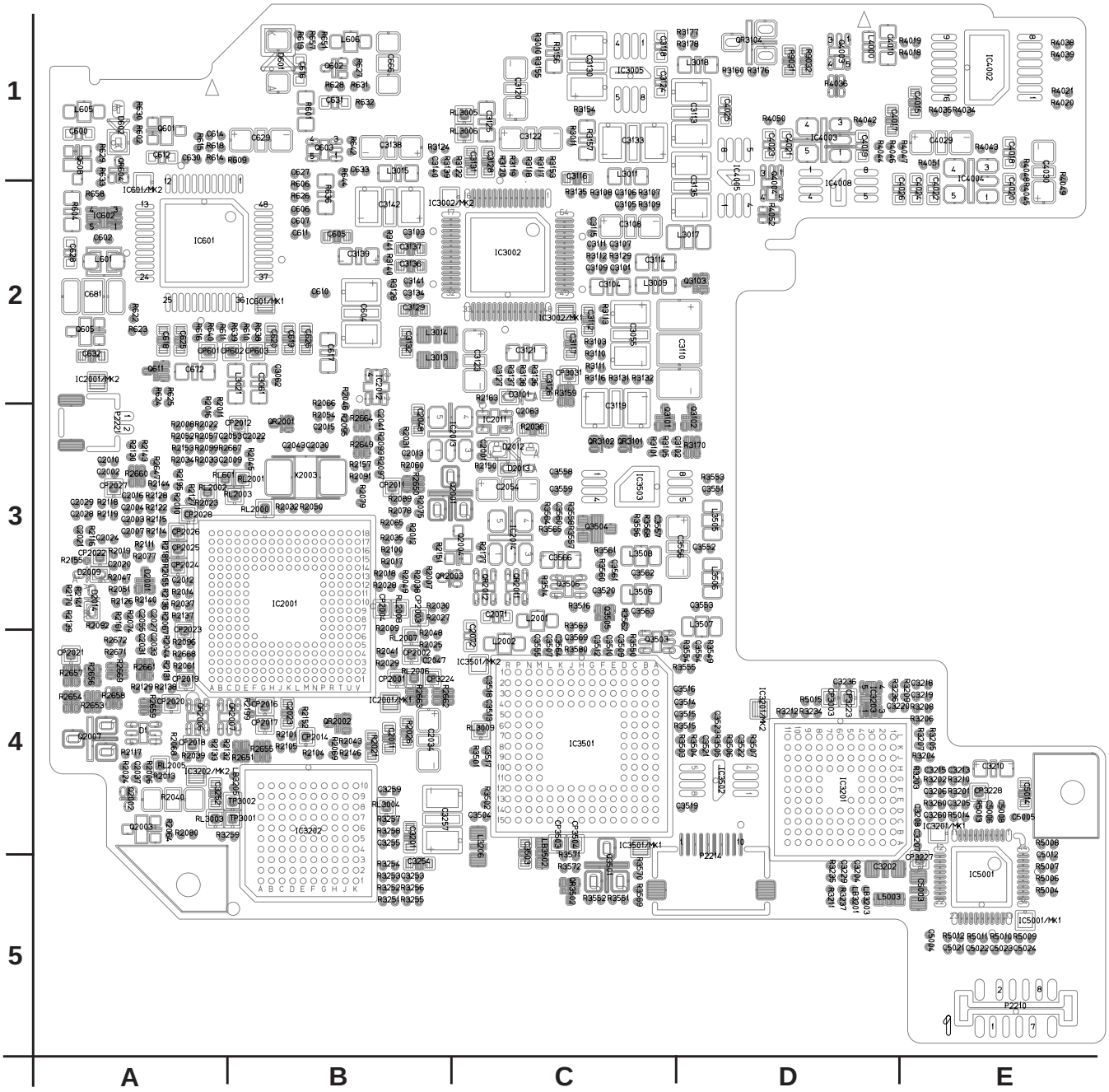
OVERALL BLOCK DIAGRAM (AG-MYA30G)



VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	B3	IC3501	C4	IC601	A2	Q2007	A4	Q4003	D1	QR2002	B4	QR3501	C5
IC2011	C3	IC3502	D4	IC602	A2	Q3101	C3	Q4004	D2	QR2003	C3	QR3502	C5
IC2012	B2	IC3503	C3	P2210	E5	Q3102	D3	Q601	A1	QR2006	A4	QR604	A1
IC2013	C3	IC4002	E1	P2214	D5	Q3103	D2	Q602	B1	QR2007	B4	TP3001	B4
IC2014	C3	IC4003	D1	P2221	A3	Q3501	C5	Q603	B1	QR2011	C3	TP3002	B4
IC3002	C2	IC4004	E1	Q2001	C3	Q3503	C4	Q605	A2	QR2012	C3		
IC3005	C1	IC4005	D1	Q2002	A4	Q3504	C3	Q608	A1	QR3101	C3		
IC3201	D4	IC4008	D2	Q2003	A4	Q3505	C3	Q611	A2	QR3102	C3		
IC3202	B4	IC5001	E5	Q2004	C3	Q3506	C3	QR2001	B3	QR3104	D1		

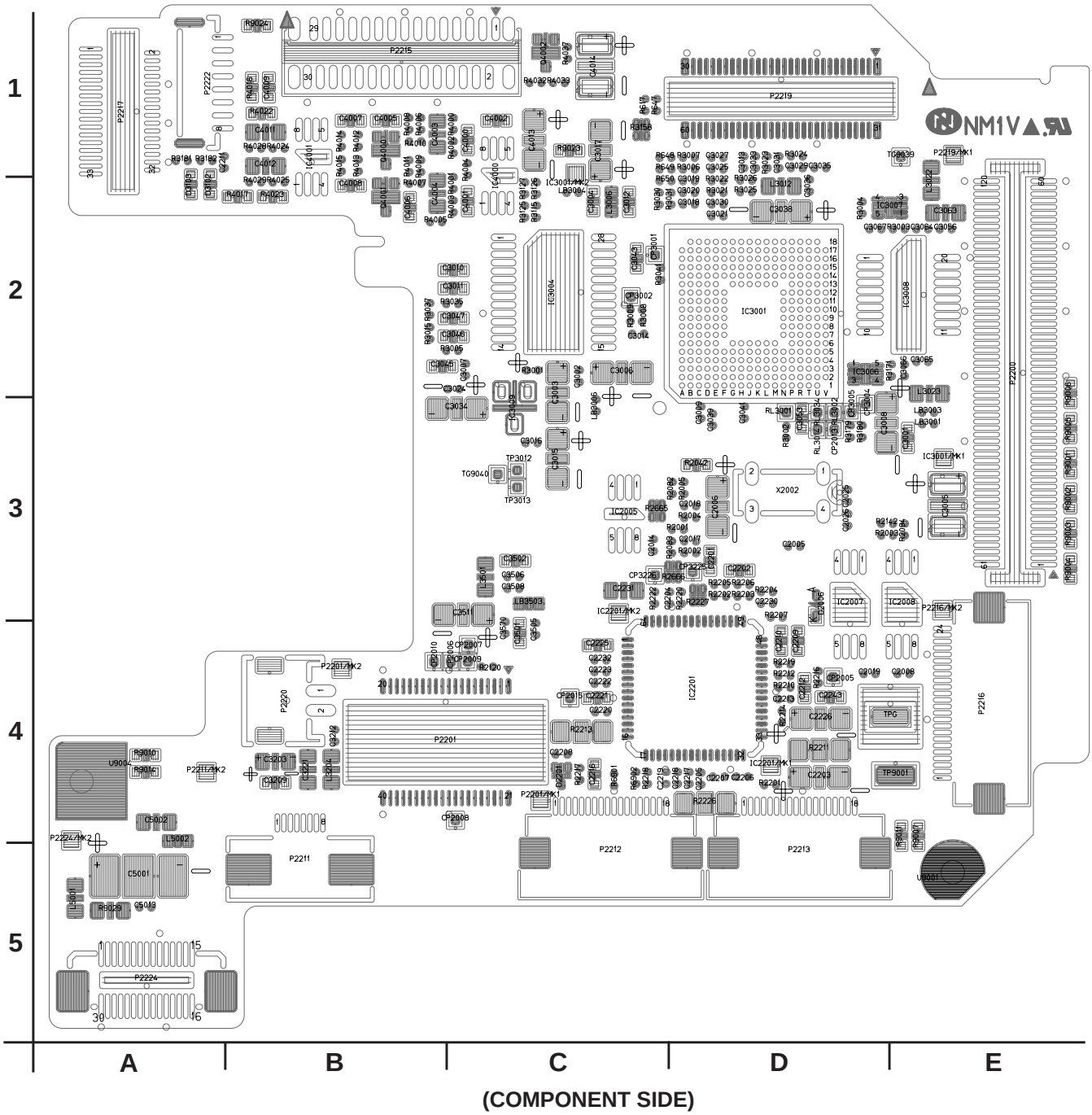


(FOIL SIDE)

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2005	C3	IC3007	D2	P2211	B5	P2220	B4	TP3013	C3
IC2007	D3	IC3008	E2	P2212	C5	P2222	A1	TP9001	E4
IC2008	E3	IC3009	C3	P2213	D5	P2224	A5	TG9040	C3
IC2201	D4	IC4000	C1	P2215	B1	Q4000	B1	TG9039	D1
IC3001	D2	IC4001	B1	P2216	E4	Q4001	B2	TPG	E4
IC3004	C2	P2200	E2	P2217	A1	Q4002	C1		
IC3006	D2	P2201	B4	P2219	D1	TP3012	C3		

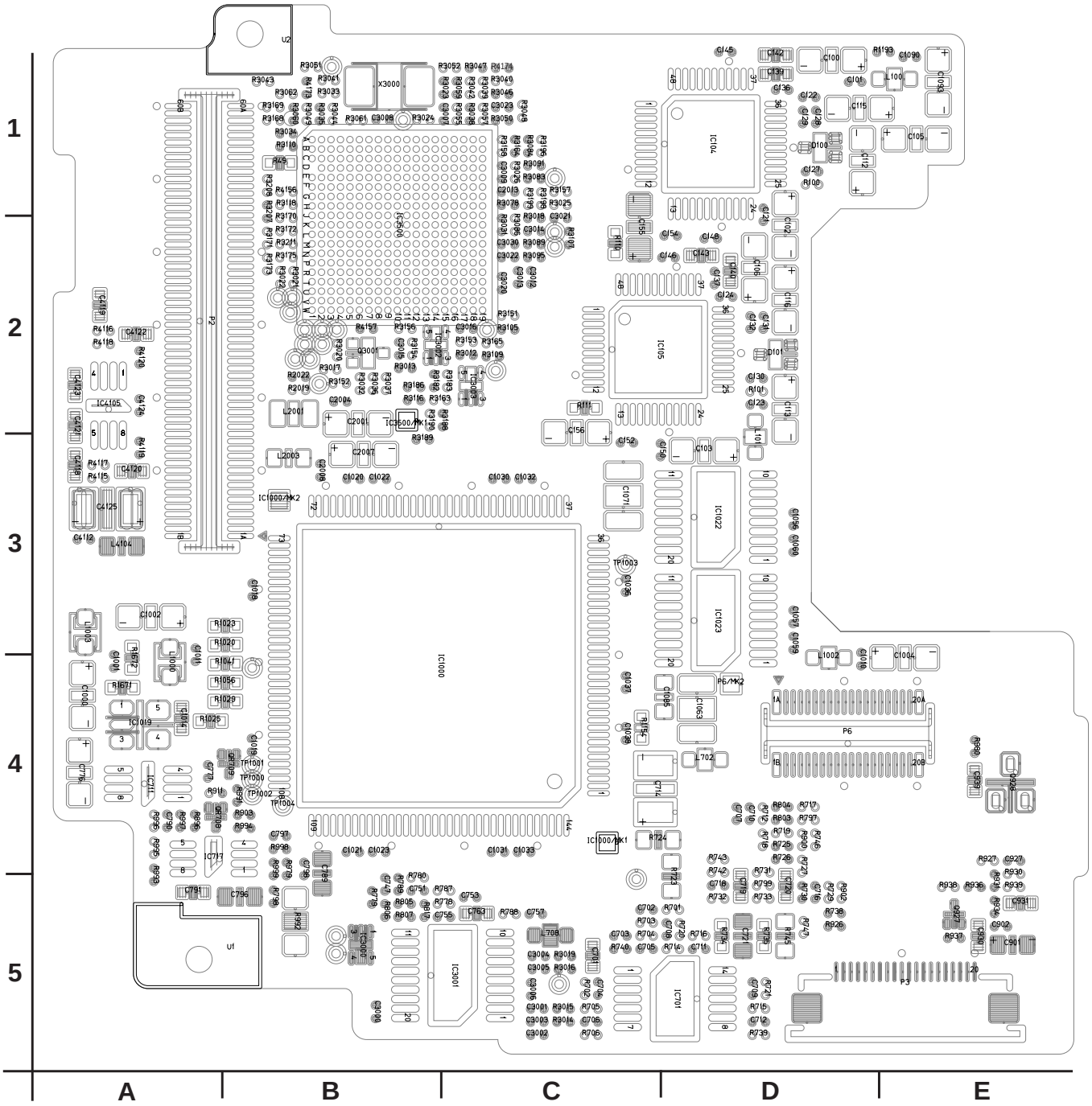


(COMPONENT SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	B4	IC3003	C2	Q3001	B2	TP1004	B4
IC1019	A4	IC3500	B2	Q927	E5		
IC1022	D3	IC4105	A2	Q928	E4		
IC1023	D3	IC701	D5	QR708	A4		
IC104	D1	IC711	A4	QR709	B4		
IC105	C2	IC717	A4	TP1000	B4		
IC3000	B5	P2	A2	TP1001	B4		
IC3001	C5	P3	E5	TP1002	B4		
IC3002	B2	P6	D4	TP1003	C3		

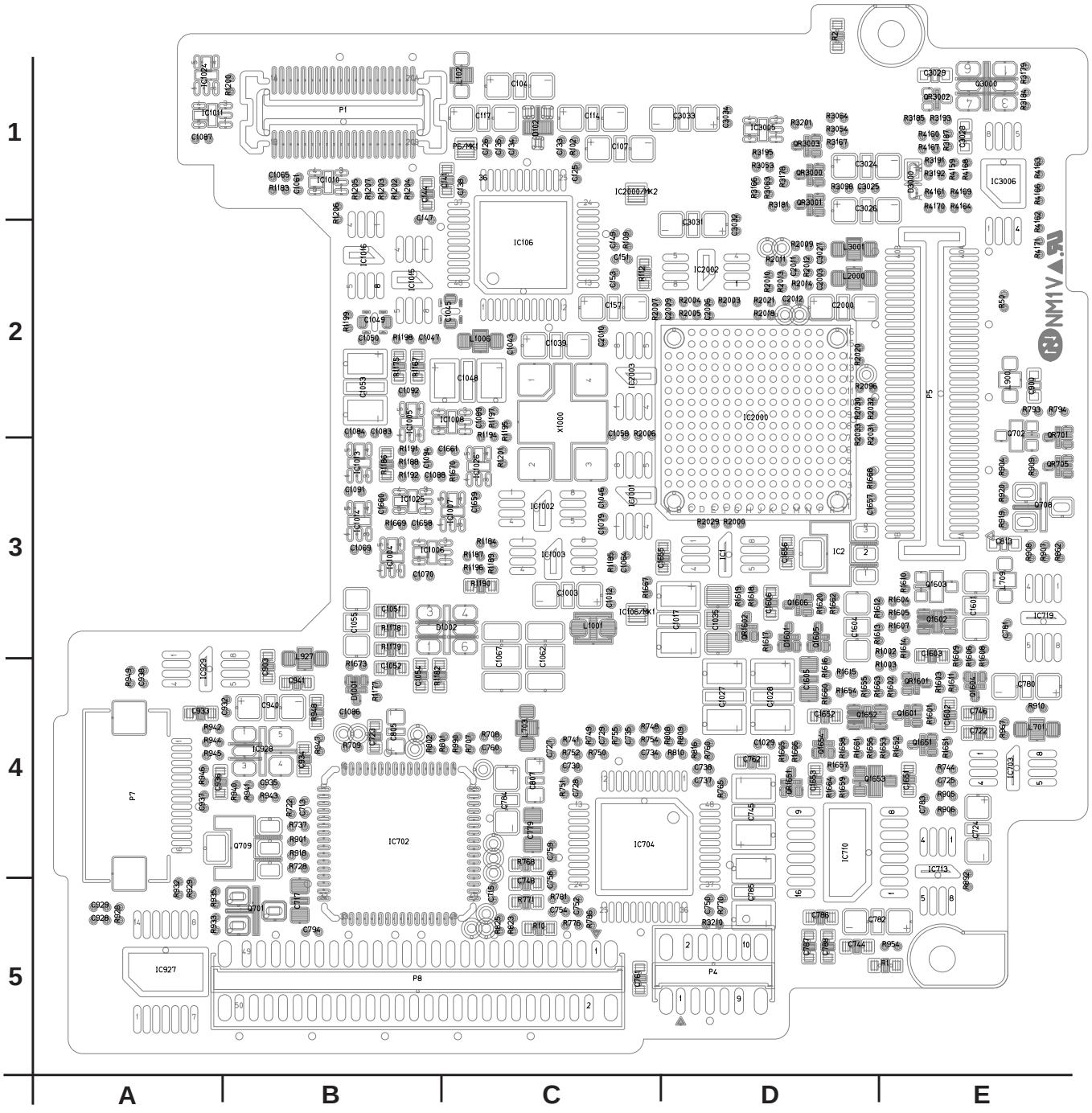


(FOIL SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D3	IC1010	B1	IC106	C2	IC704	C4	P5	E2	Q1651	E4	QR1601	E4
IC1001	C3	IC1011	A1	IC2	D3	IC710	D4	P7	A4	Q1652	D4	QR1602	D3
IC1002	C3	IC1013	B3	IC2000	E2	IC713	E4	P8	B5	Q1653	D4	QR1651	D4
IC1003	C3	IC1014	B3	IC2002	E2	IC719	E3	Q1601	E4	Q1654	D4	QR3000	D1
IC1004	B3	IC1015	B2	IC2003	C2	IC927	A5	Q1602	E3	Q3000	E1	QR3001	D1
IC1005	B2	IC1016	B2	IC3005	D1	IC928	B4	Q1603	E3	Q701	B5	QR3002	E1
IC1006	B3	IC1024	A1	IC3006	E1	IC929	A4	Q1604	E4	Q702	E2	QR3003	D1
IC1007	C3	IC1025	B3	IC702	B4	P1	B1	Q1605	D3	Q708	E3	QR701	E2
IC1008	C2	IC1026	C3	IC703	E4	P4	D5	Q1606	D3	Q709	B4	QR705	E3



(COMPONENT SIDE)

POWER C.B.A. (VEP01952A)

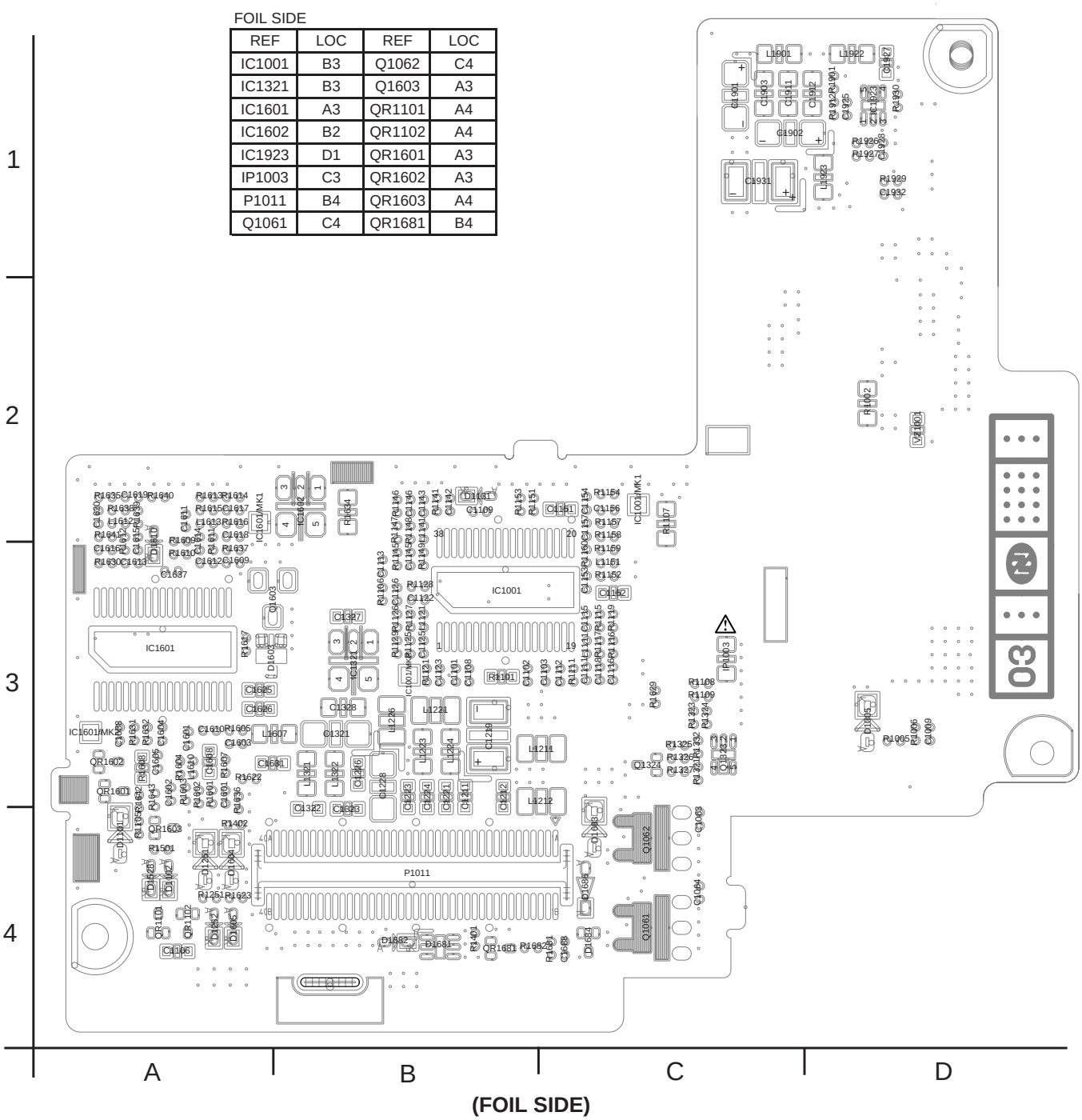
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

FOIL SIDE

REF	LOC	REF	LOC
IC1001	B3	Q1062	C4
IC1321	B3	Q1603	A3
IC1601	A3	QR1101	A4
IC1602	B2	QR1102	A4
IC1923	D1	QR1601	A3
IP1003	C3	QR1602	A3
P1011	B4	QR1603	A4
Q1061	C4	QR1681	B4



(FOIL SIDE)

POWER C.B.A. (VEP01952A)

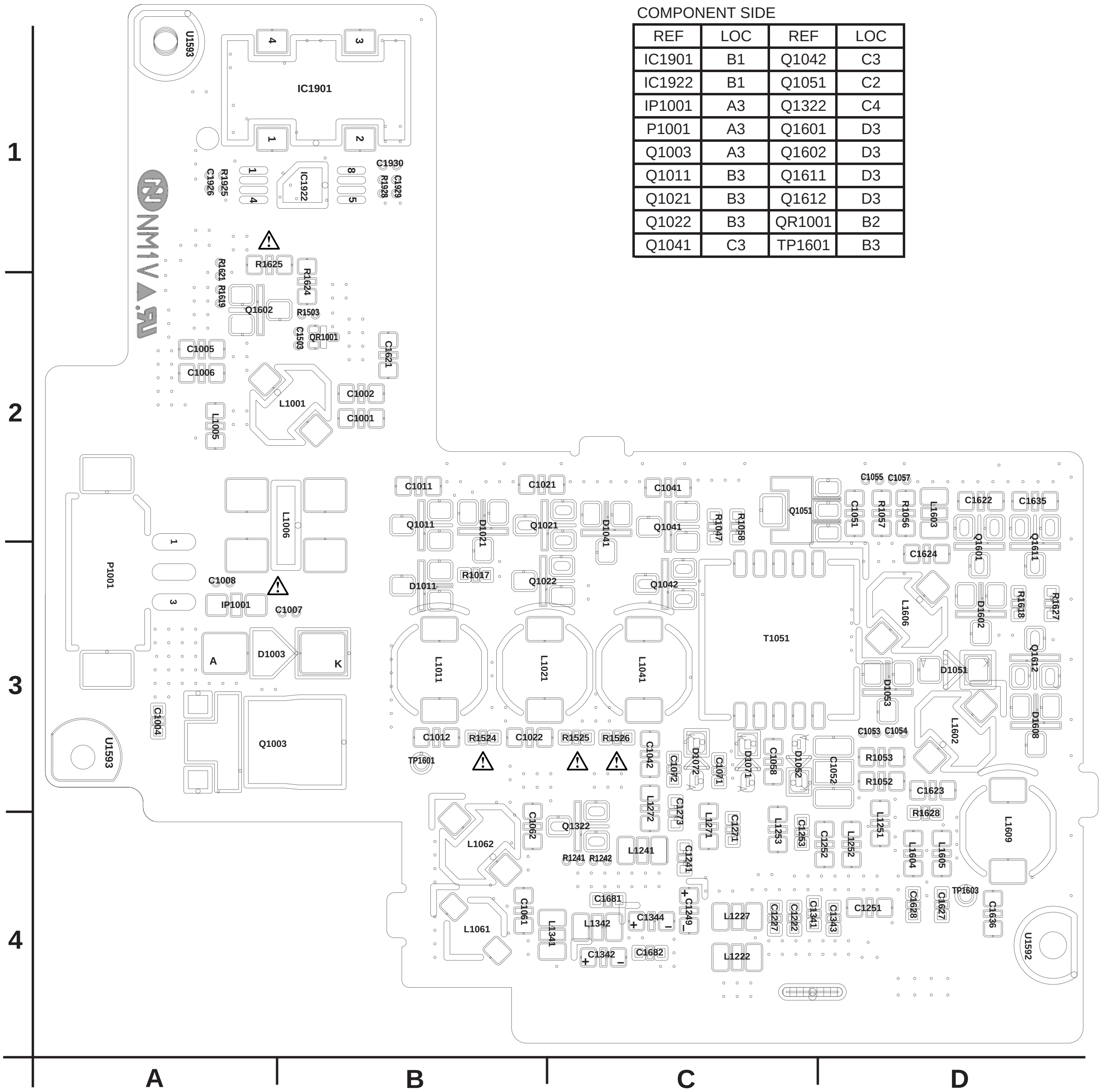
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COMPONENT SIDE

REF	LOC	REF	LOC
IC1901	B1	Q1042	C3
IC1922	B1	Q1051	C2
IP1001	A3	Q1322	C4
P1001	A3	Q1601	D3
Q1003	A3	Q1602	D3
Q1011	B3	Q1611	D3
Q1021	B3	Q1612	D3
Q1022	B3	QR1001	B2
Q1041	C3	TP1601	B3



(COMPONENT SIDE)

ORDER NO. BSD04030090
D21

Service Manual

Sec. 1	*Service Information*
Sec. 2	*Disassembly Procedures*
Sec. 3	*Mechanical Adjustment*
Sec. 4	*Electrical Adjustment*
Sec. 5	*Block Diagrams*
Sec. 6	*Schematic Diagrams*
Sec. 7	*Circuit Board Diagrams*
Sec. 8	*Exploded Views & Replacement Parts List*

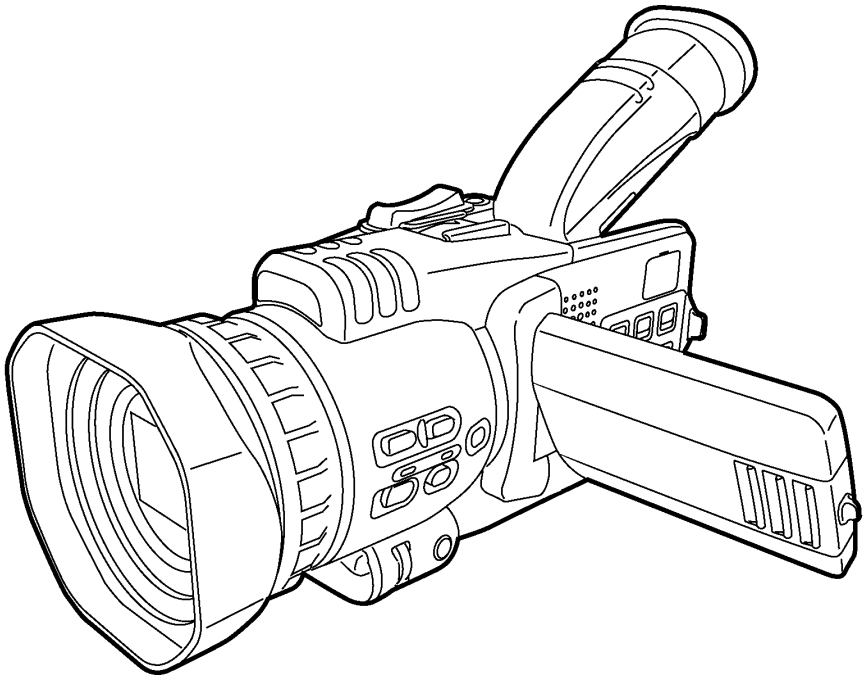
Mini DV

Digital Video Camera Recorder

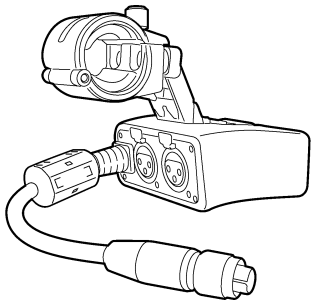
AG-DVC30P/E
AG-DVC32EN
AG-DVC33MC

XLR Microphone Adapter

AG-MYA30G



AG-DVC30/32/33



AG-MYA30G

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AG-DVC30P

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

▭ indicates safety information.

Ambient operating temperature
32°F to 104°F (0°C to 40°C)
Ambient operating humidity
10% to 85% (no condensation)
Weight
2.31 lb (1.05 kg)
(excluding battery and accessories)
Dimensions (W×H×D)
4 3/8×4 5/8×10 inches (110×116×253 mm)
The height increases to 6 5/16 inches (160 mm) when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
525i (NTSC)
Shooting mode
60i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.812 mm/sec.
LP mode: 12.555 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 410,000,
Number of effective pixels: 380,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom,
F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Color separation optical system
Prism system
ND filter
Interlocked with iris, auto ON/OFF
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/4, 1/8, 1/15, 1/30 sec.
Regular shutter speeds:
1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/60.3 to 1/250 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50 IRE video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD color monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD color viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analog composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Power Source:
110/120/220/240 V AC, 50/60 Hz
Power Consumption:
18 W

indicates safety information.

Weight
0.35 lb (0.16 kg)
Dimensions (W×H×D)
$2\ 13/16 \times 1\ 13/16 \times 4\ 5/8$ inches
(70×44.5×116 mm)

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16
(1600 mAh: equivalent to accessory battery)
CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh)
AC adapter kit
AG-B15 (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLA

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

indicates safety information.

Ambient operating temperature
0°C to 40°C
Ambient operating humidity
10% to 85% (no condensation)
Weight
1.05 kg
(excluding battery and accessories)
Dimensions (W×H×D)
110×116×253 mm
The height increases to 160 mm when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
625i (PAL)
Shooting mode
50i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.831 mm/sec.
LP mode: 12.568 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 470,000,
Number of effective pixels: 440,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom, F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Colour separation optical system
Prism system
ND filter
Interlocked with iris, ON/OFF switched automatically
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/3, 1/6, 1/12, 1/25 sec.
Regular shutter speeds:
1/50, 1/60, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/50.2 to 1/248 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50% video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD colour viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.3 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analogue composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Input:
100 – 240 V AC, 50/60 Hz, 20 W
Output:
Video camera: DC 7.9 V, 1.4 A (max.)
Charge: DC 8.4 V, 1.2 A

▭ indicates safety information.

Weight
0.16 kg
Dimensions (W×H×D)
70×44.5×116 mm

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16S
(1600 mAh: equivalent to accessory battery)
CGP-D28S (2800 mAh)
CGA-D54S (5400 mAh)
AC adapter kit
AG-B15E (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLC

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Specifications

Ambient operating temperature:
32°F to 104°F (0°C to +40°C)
Ambient operating humidity:
10% to 85% (no condensation)
Weight:
0.407 lb (185 g)
Excluding microphone holder
Dimensions (W×H×D):
2 3/4×1 1/2×3 inches
(69.6×36.6×75 mm)
Excluding microphone holder

XLR connector (INPUT1, INPUT2):
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (setting selected using ATT switch)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

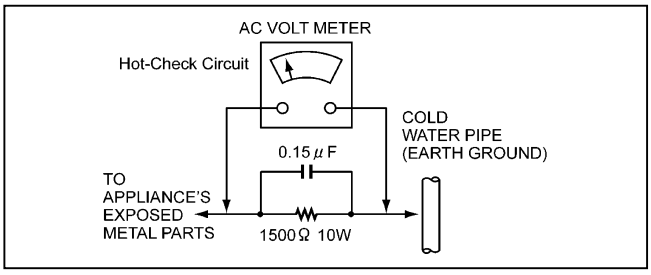


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.
Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70˚F (30-40˚C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20˚F (370±10˚C).
2. Pb free solder will tend to splash when heated too high (about 1100˚F/600˚C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

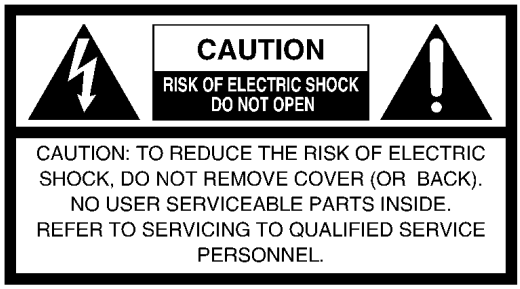
1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

FCC Note:

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cable when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 140°F (60°C).
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Notice (U.S.A.only):

This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components.
Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:
<http://www.eiae.org.>

Camera-Recorder

- The rating plate is on the underside of the Camera-Recorder

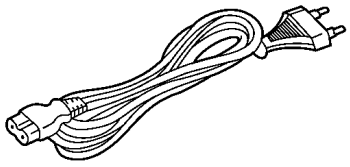
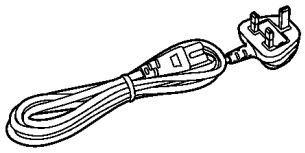
AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

indicates safety information.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K.	**FOR U.K. ONLY** If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.
	

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

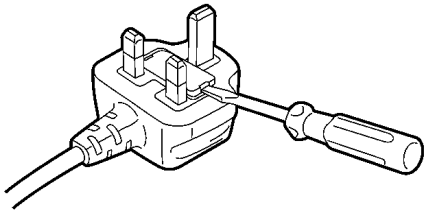
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

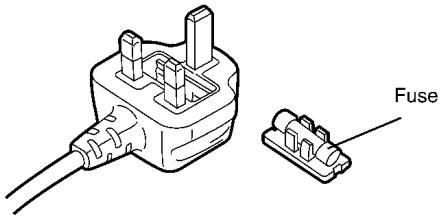
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
- Under no circumstances shoul either of these wires be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ .

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



▭ indicates safety information.

IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Camera Recorder

- The rating plate is on the underside of the Camera Recorder

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

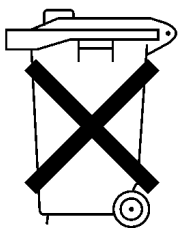
CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

▭ indicates safety information.

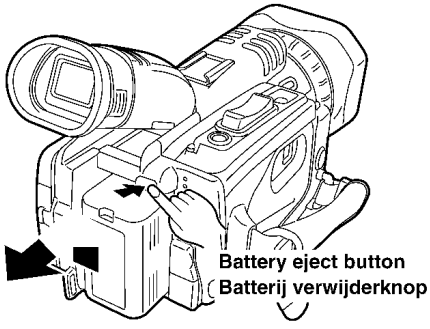
Attention/Attentie

- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.



To remove the battery/ Verwijderen van de batterij

Main Power Battery
Batterij Voor Primaire Voeding



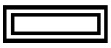
■ **DO NOT REMOVE COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside.

Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

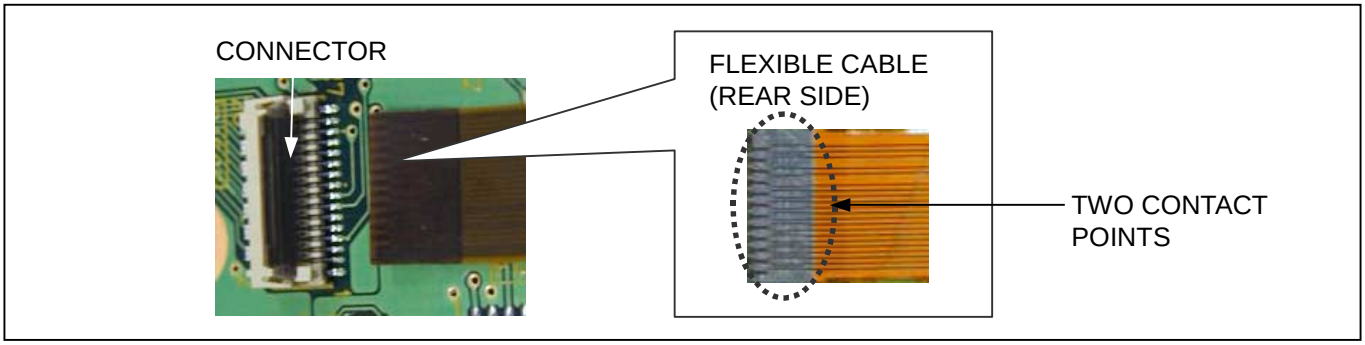
 indicates safety information.

Panasonic

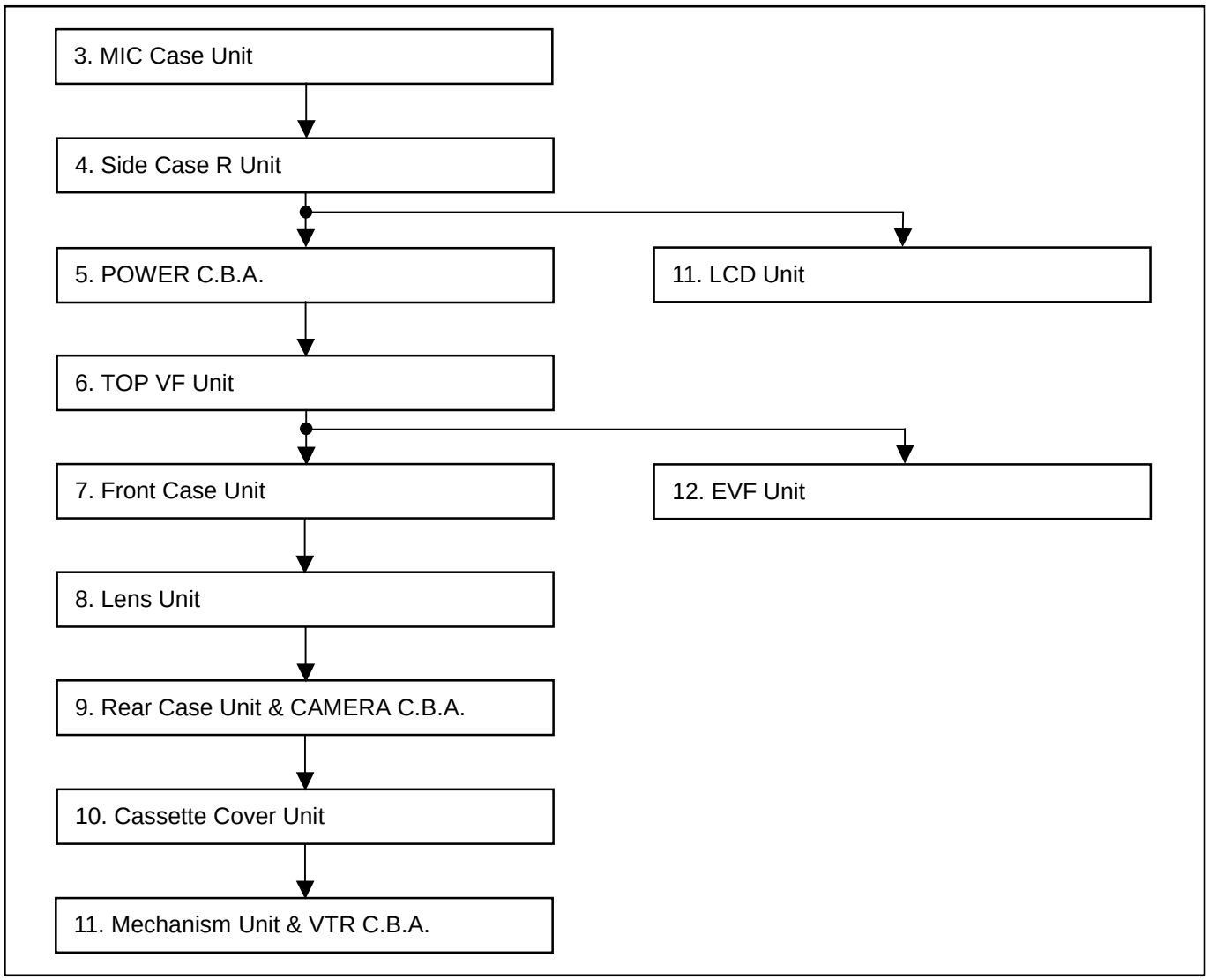
FCD0403NMHK141E480

1. Note when inserting Flexible Cable

The flexible cables, have two sets of contacts on each cable, see the figure below. When inserting these cables into the connector, make sure that the cables are fully inserted, if not they may damage the connector.



2. Disassembly Flowchart



3. Removal of MIC Case Unit

1. Unscrew the 6 screws (A) and remove the MIC Case Unit as shown in figure 3-1.

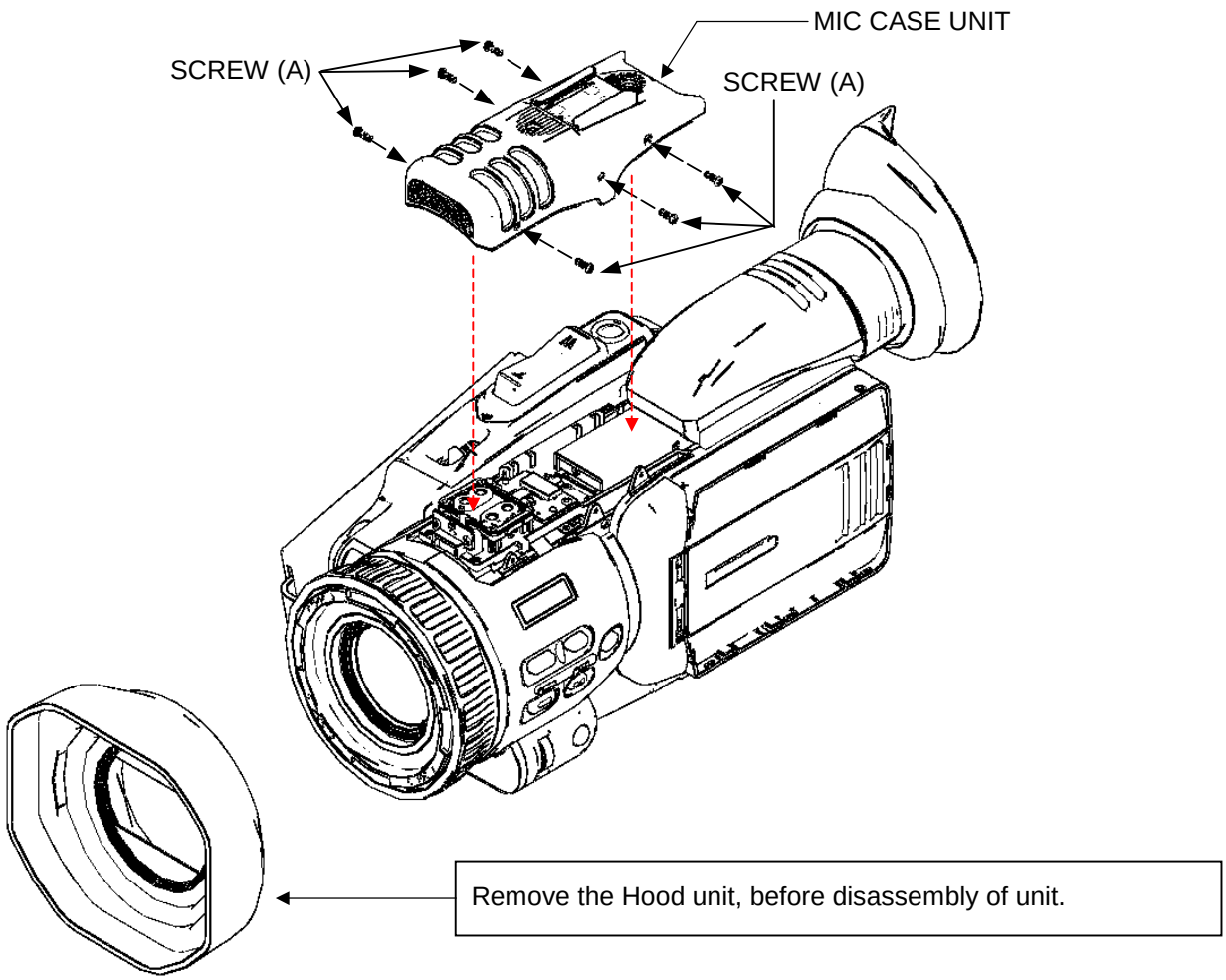


Figure 3-1

4. Removal of Side Case R Unit

1. Remove the MIC Case Unit.
2. Unscrew the 10 screws (A) as shown in figure 4-1.
3. Disconnect the connector P6403 on R SIDE C.B.A. and remove the Side Case R Unit as shown in figure 4-1.

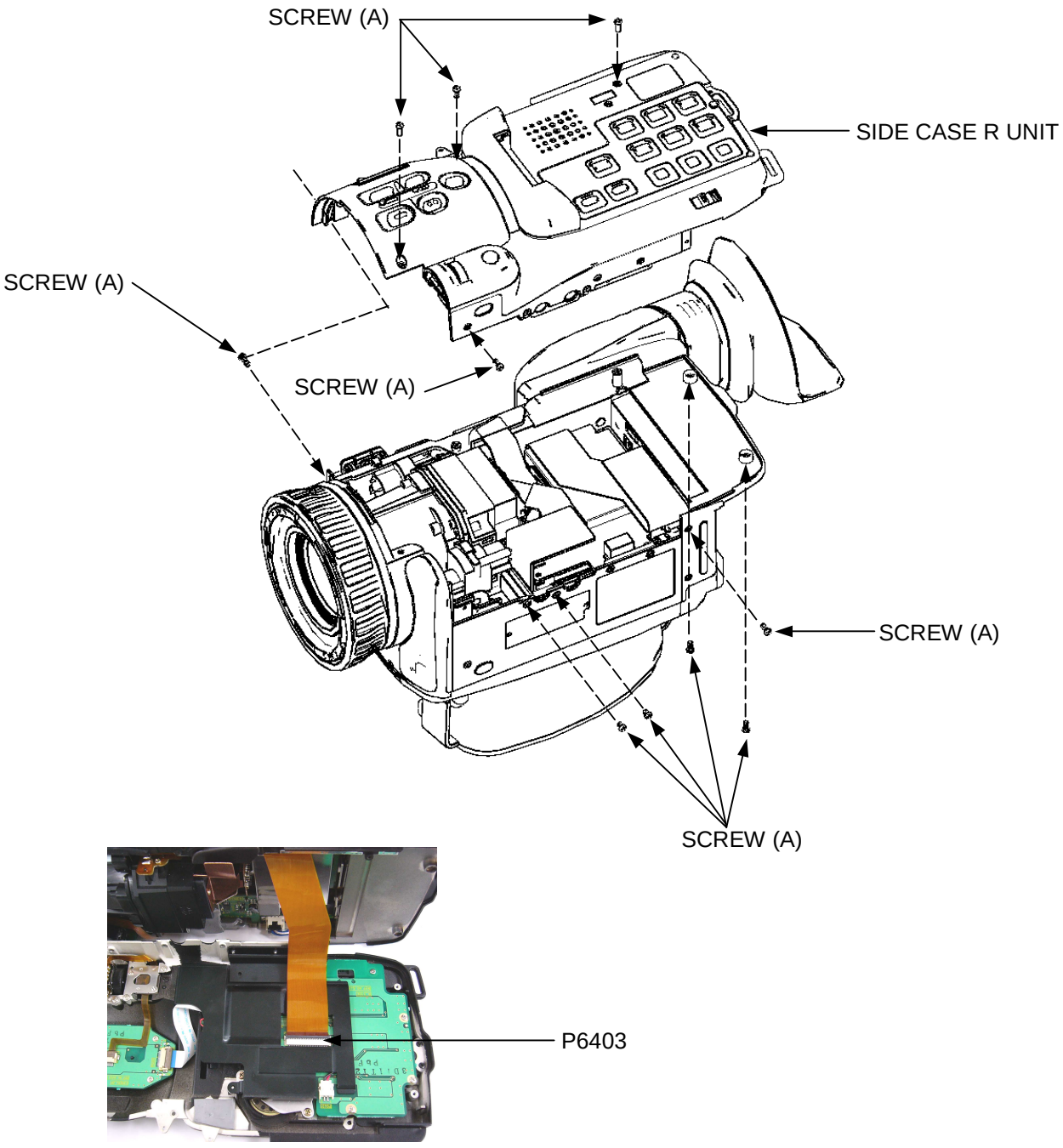


Figure 4-1

5. Removal of POWER C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Disconnect a connector P1001 on POWER C.B.A. as shown in figure 5-1.
4. Unscrew the 2 screws (A) and remove the POWER C.B.A.. Be careful because the CAMERA C.B.A.(bottom side of POWER C.B.A.) and the connector in the POWER C.B.A are combining the one connector.

(Note in installation)

1. In case new POWER C.B.A. is installed, put the Cooling Sheet in following position as shown in figure 5-1.

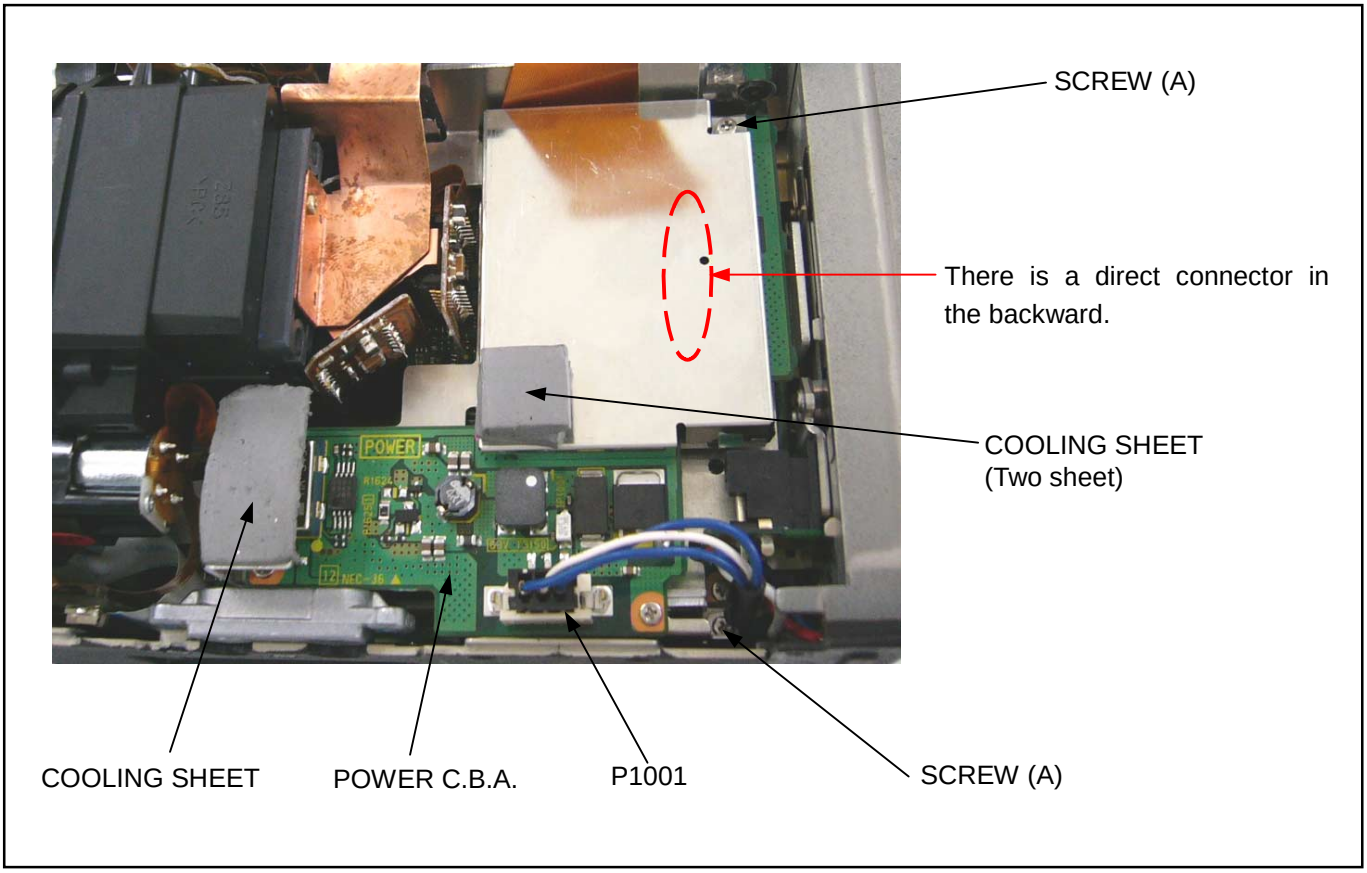


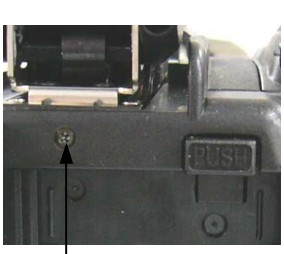
Figure 5-1

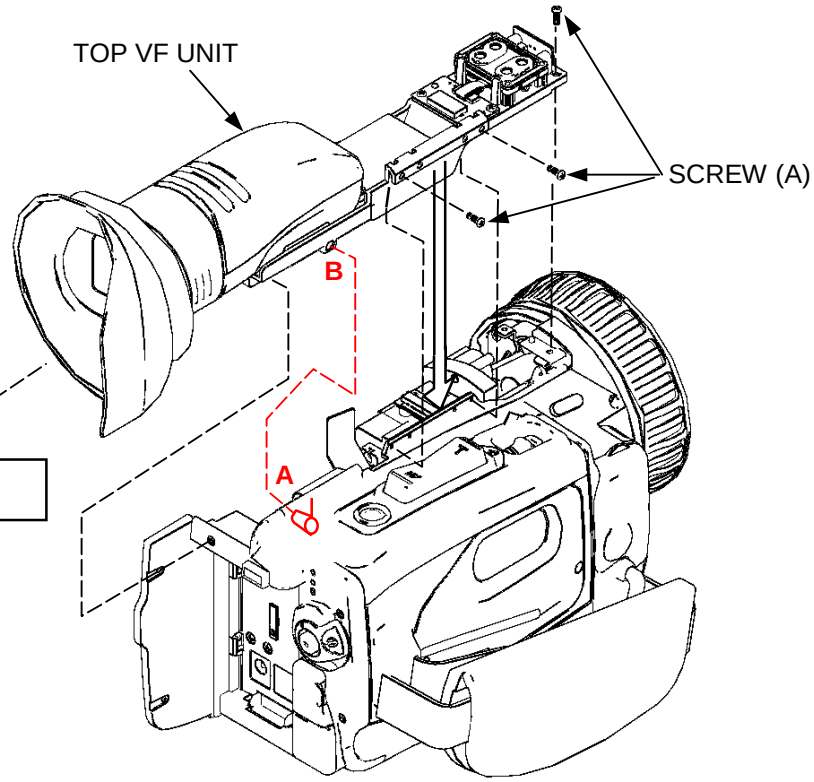
6. Removal of TOP VF Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 4 screws (A) as shown in figure 6-1.
4. Lift up the TOP VF and disconnect a connector P2215 on VTR C.B.A., then remove the TOP VF Unit as shown in figure 6-1. Then be careful because the portion A and B are hooked together.

(Note in installation)

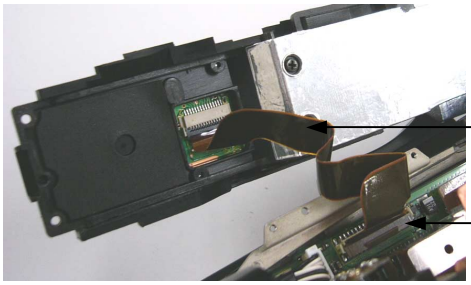
1. In case the flexible cable (A) is changed to new one, bend it to Z character as shown in figure 6-1.
2. The CCD Heat Sink is located to outside of TOP VF Unit as shown in figure 6-1.





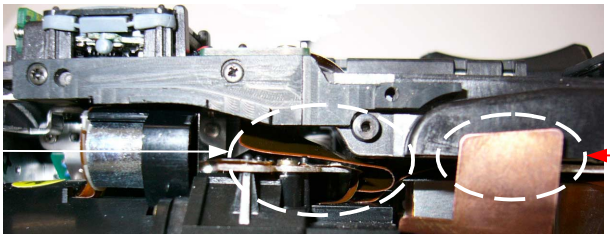
SCREW (A)

Hook the A to B portion.



Flexible Cable (A)

P2215



Do not give damage to cable

Outside of TOP VF Unit

Figure 6-1

7. Removal of Front Case Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the TOP VF Unit.
4. Unscrew the 3 screws (A) as shown in figure 7-1.
5. Disconnect a connector P6301 and remove the Front Case Unit as shown in figure 7-1.

(Note in installation)

1. When installing the Front Case Unit, do not give damage the Lens.
2. In case of the flexible cable (it connected with P6301 and CAMERA C.B.A.) is exchange to new one, bend it to Z character to put under the Lens Unit.

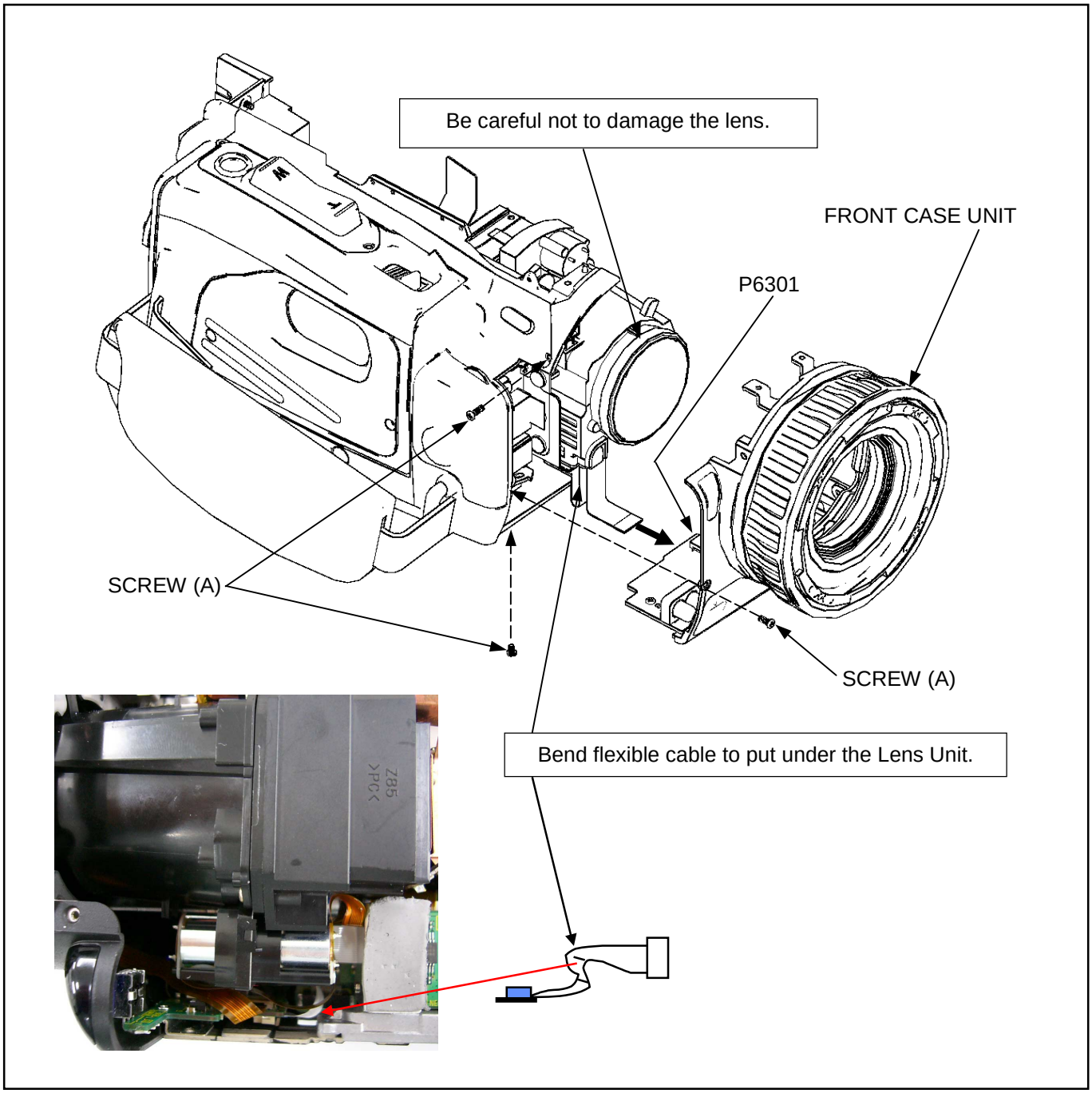


Figure 7-1

8. Removal of Lens Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Unscrew the 2 screws (A) and remove the CCD CON STOPPER as shown in figure 8-1.
7. Disconnect the connector P1 and P8 on CAMERA C.B.A. as shown in figure 8-1.
8. Unscrew the 4 screws (B) and remove the Lens Unit.
9. Unscrew the 4 screws (C) and remove the Lens Frame Unit from Lens Unit as shown in figure 8-1.

(Note in installation)

1. In case a new Lens Unit is installed, bend the flexible cable (A) to Z character as shown in figure 8-1.

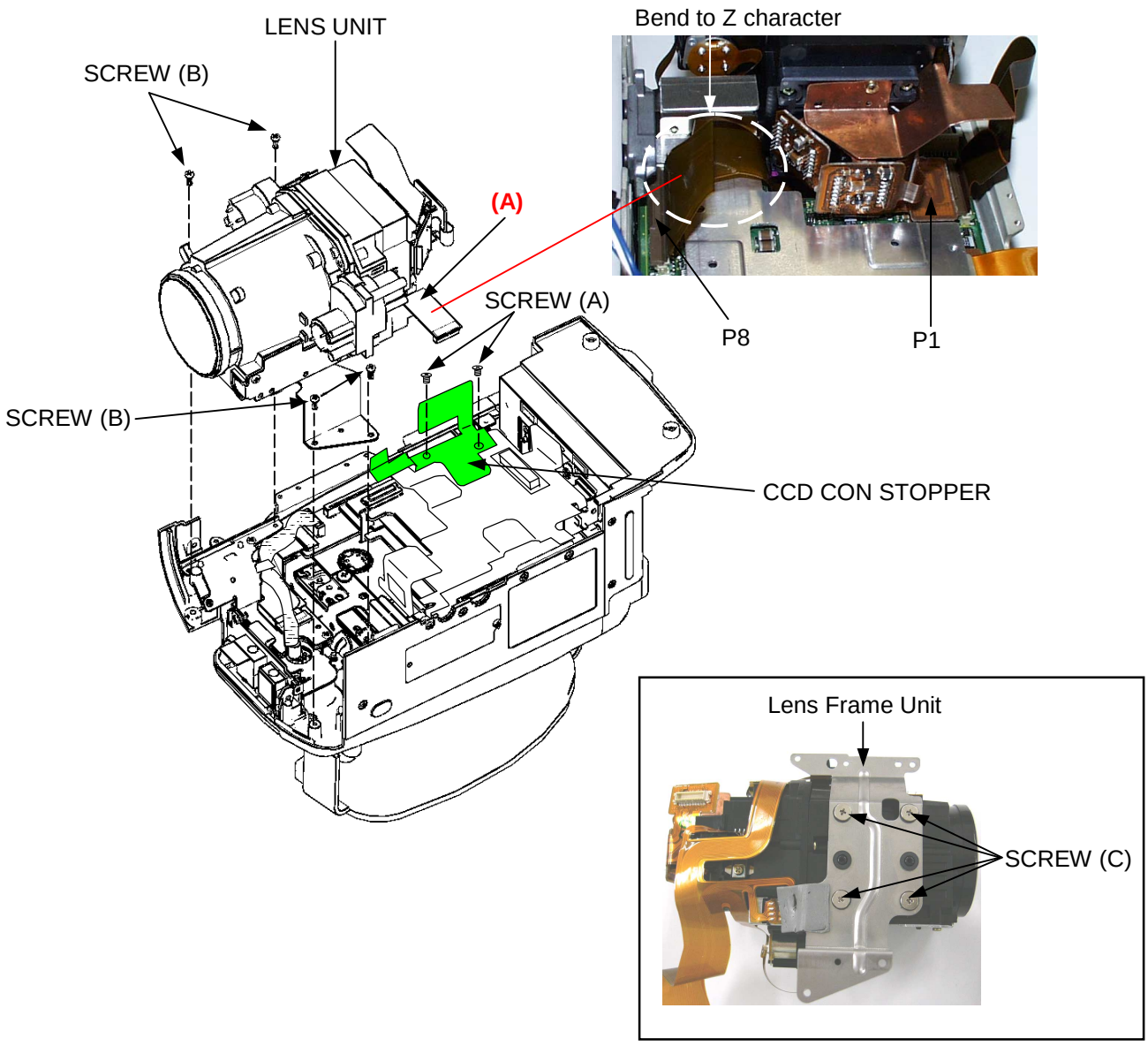


Figure 8-1

9. Removal of Rear Case Unit & CAMERA C.B.A.

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Removal of Lens Unit.
7. Remove the 3 screws (A) as shown in figure 9-1.
8. Disconnect a connector P2 on CAMERA C.B.A. as shown in figure 9-1.
9. Unscrew the 2 screws (B) on CAMERA C.B.A. as shown in figure 9-1.
10. It shifts the Rear Case Unit as much as showing in figure 9-1 and remove the CAMERA C.B.A.. Be careful because the VTR C.B.A.(bottom side of CAMERA C.B.A.) and the connector in the CAMERA C.B.A are combined.
11. Disconnect a connector P2216 on VTR C.B.A. and remove the Rear Case Unit.

(Note in installation)

1. When installing the CAMERA C.B.A., Attach the CAMERA C.B.A. to portion “A” of Mech. Attachment Frame as shown in figure 9-1.
2. When installing the CAMERA C.B.A., the parts which are shown in figure 9-1 on the CAMERA C.B.A. are combined with the VTR C.B.A. with the direct connector, pushing CAMERA C.B.A. well.
3. When installing the Rear Case Unit, it puts section “B” in the hole of flexible cable, which is connected in P2216 as shown in figure 9-1.

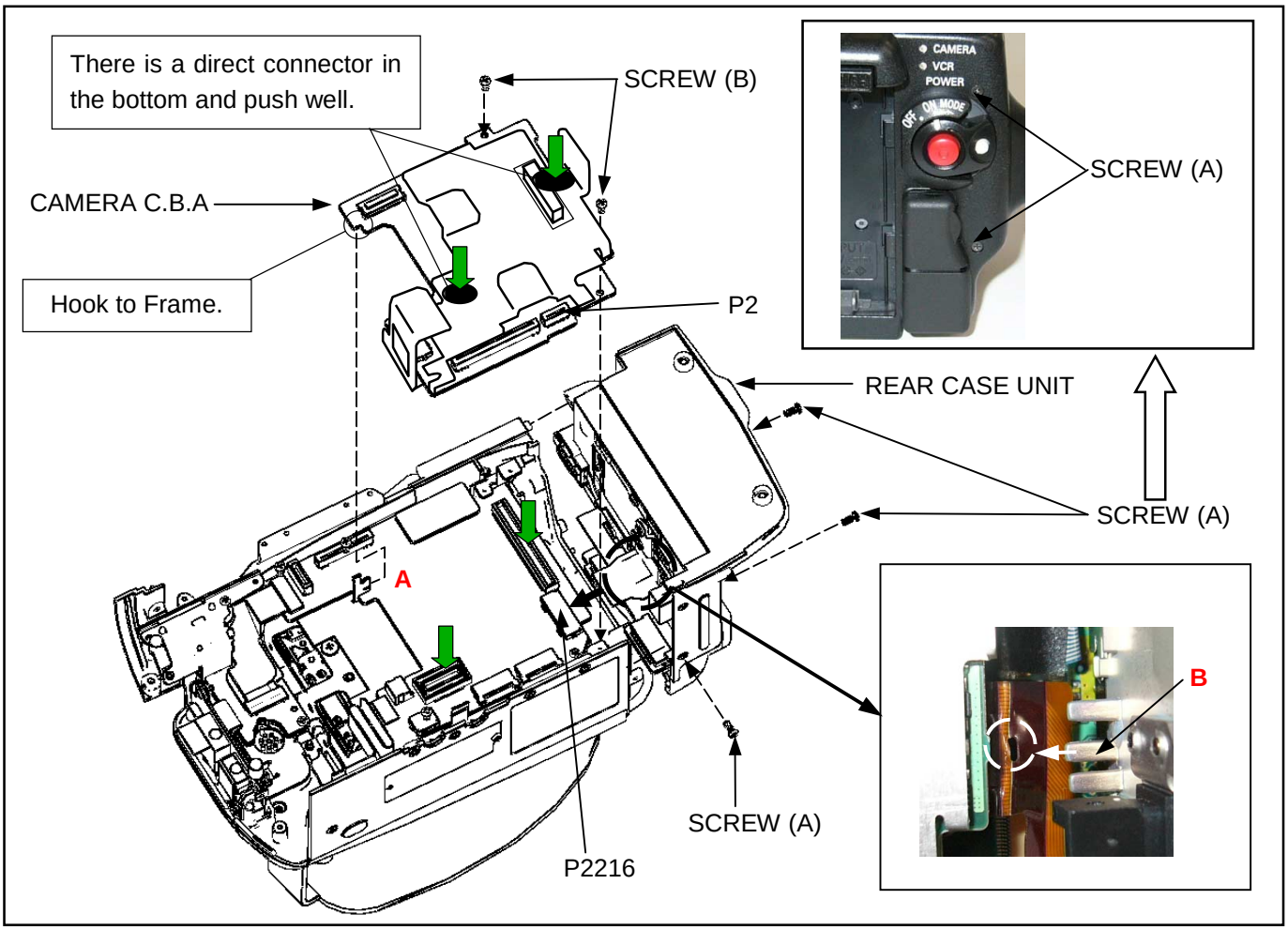


Figure 9-1

10. Removal of Cassette Cover Unit

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Unscrew the 2 screws (A) and remove the Cassette Cover Unit as shown in figure 10-1.

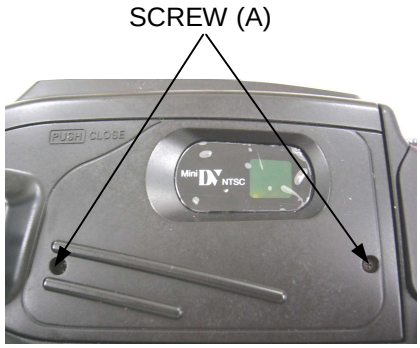


Figure 10-1

(Note in installation)

1. Pass flexible cable through the portion “A” as shown in figure 10-2.
2. Attach the “B” portion to “C” portion as shown in figure 10-2 and tighten the 2 screws (A).

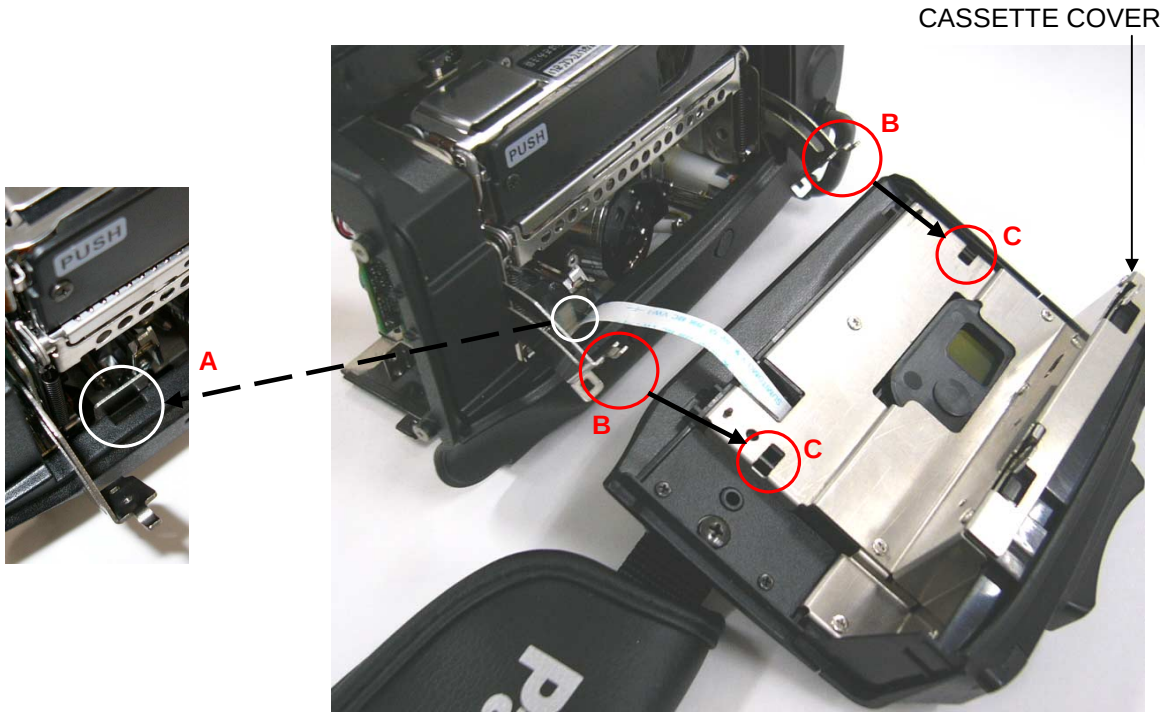


Figure 10-2

11. Removal of Mechanism Unit & VTR C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Remove the Cassette Cover Unit.
9. Disconnect the connector P2219 and P2222 on VTR C.B.A. as shown in figure 11-1.
10. Disconnect the connector P2217 on VTR C.B.A. and P4101 on SIDE JACK C.B.A., then remove the flexible cable (A) as shown in figure 11-1.
11. Unscrew the 6 screws (A) and remove the Unit (Mechanism & VTR C.B.A.) as shown in figure 11-1.

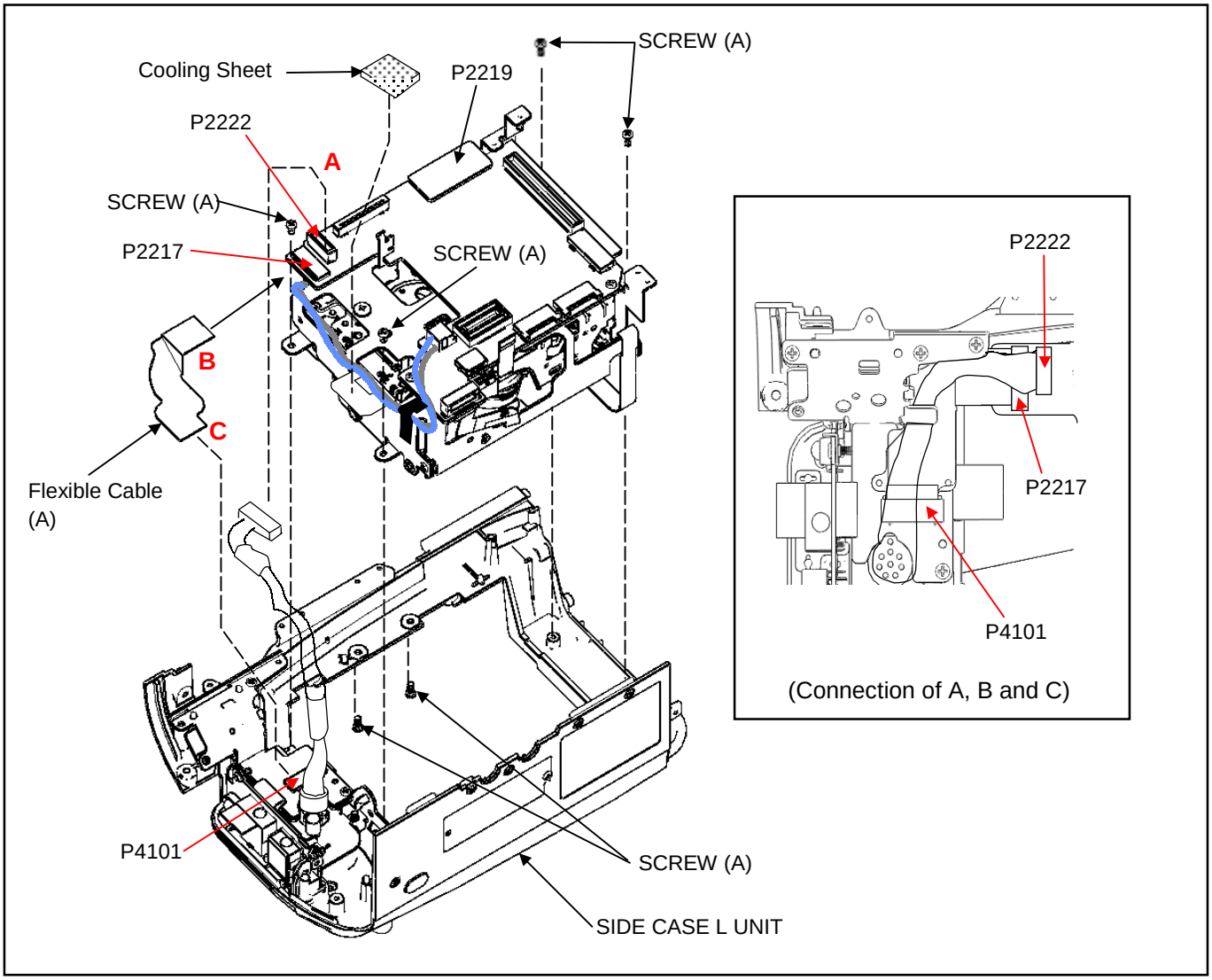


Figure 11-1

NOTE: MECH Attachment Frame requires replacement, make sure to move the Cooling Sheet to the new MECH Attachment Frame. See figure 11-1.

12. Disconnect the 7 connectors (A),(B),(C),(D),(E),(F) and (G) on VTR C.B.A. as shown in figure 11-2.

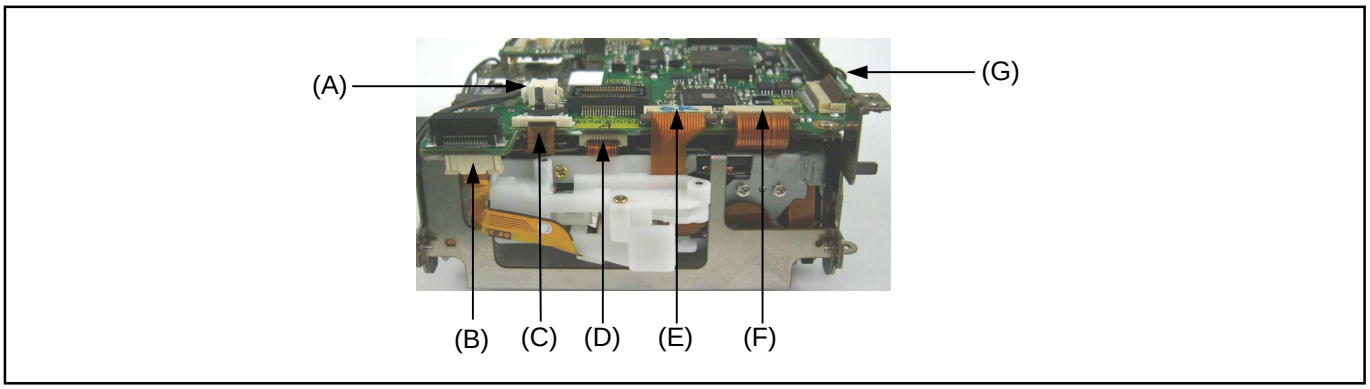


Figure 11-2

13. Unscrew the 2 screws (B) and remove the VTR C.B.A. as shown in figure 11-3.
14. Unscrew the 3 screws (C) and remove the Mechanism Unit from Mech. Attachment Frame Unit as shown in figure 11-3.
15. Unscrew the 2 screws (D) and remove the Garage Cover as shown in figure 11-3.

NOTE: In case a new Mechanism unit is installed, put the FPC Protection Sheet in the following position as shown in figure 11-3.

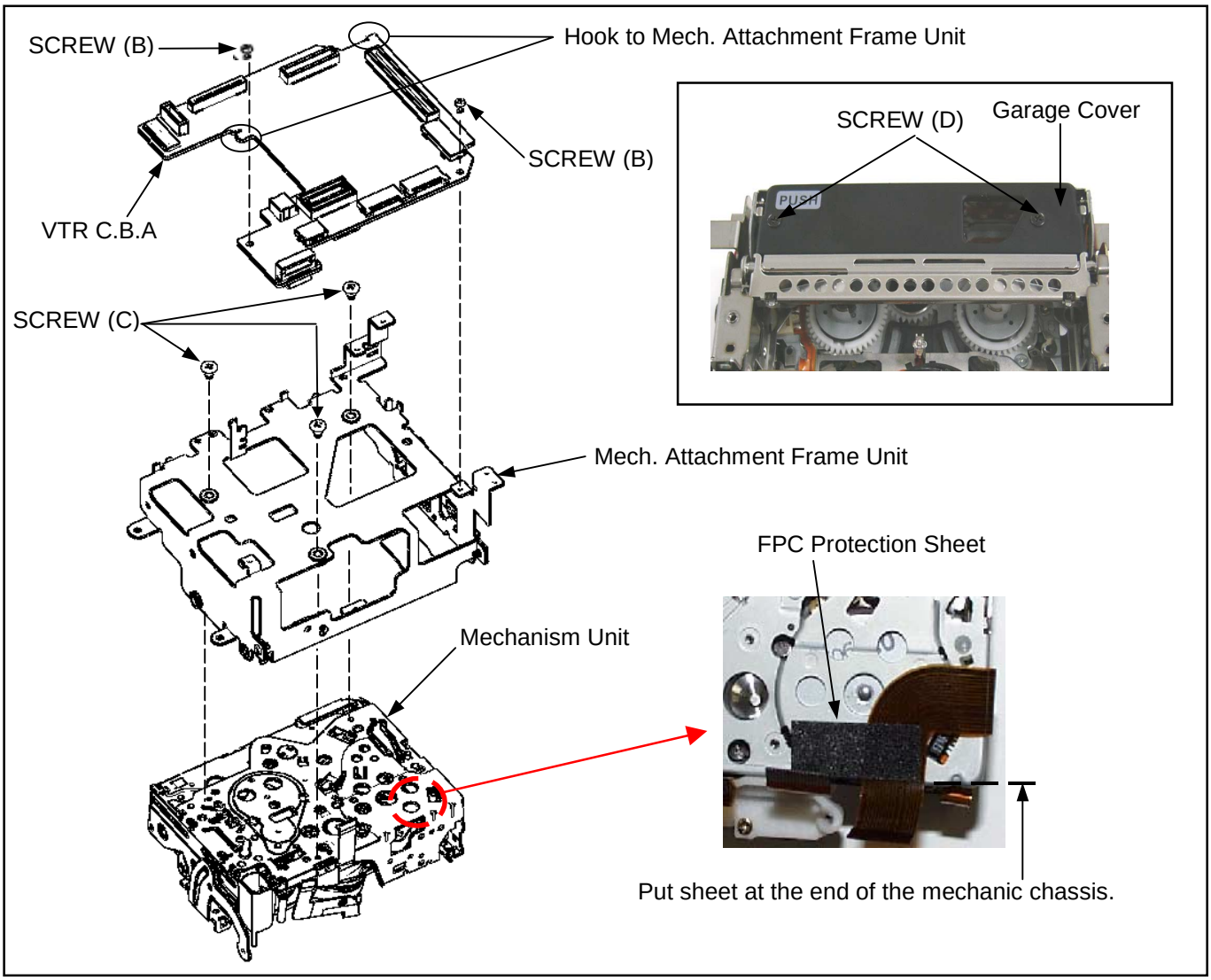


Figure 11-3

12. Removal of LCD Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 3 screws (A) and remove the HEAT SINK(SIDE R) as shown in figure 12-1.
4. Remove the FFC Protection Sheet as shown in figure 12-2.
5. Remove the Cooling Sheet to unscrew the screw (B) and unscrew the screw (B) and (C) as shown in figure 12-2.
6. Remove the HINGE COVER and unscrew the 2 screws (D) as shown in figure 12-3.
7. Disconnect connector P6404 on R SIDE C.B.A. and remove the LCD Unit as shown in figure 12-2.

(Note in installation)

1. When installing the FFC Protection Sheet, fully open the LCD Panel and Put on the original position as shown in figure 12-2.
2. Do not forget put on the Cooling Sheet after tightening the screw (B) as shown in figure 12-2.

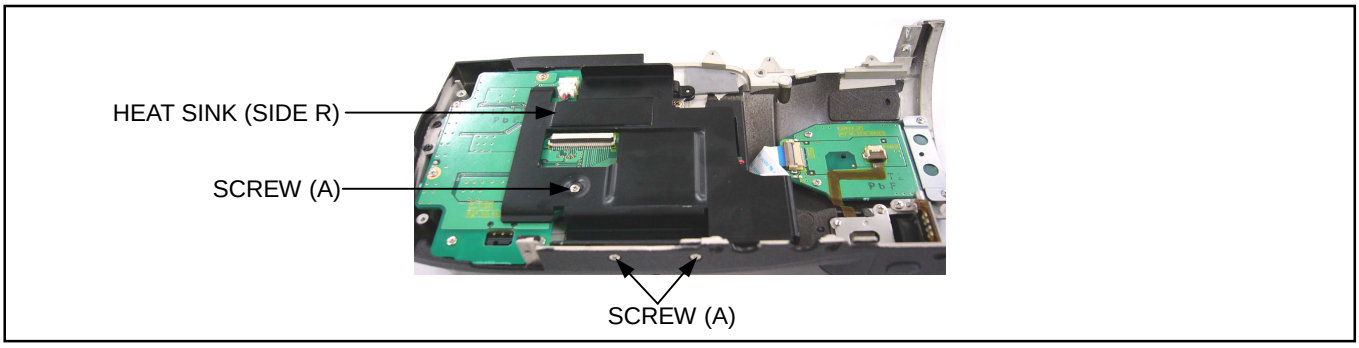


Figure 12-1

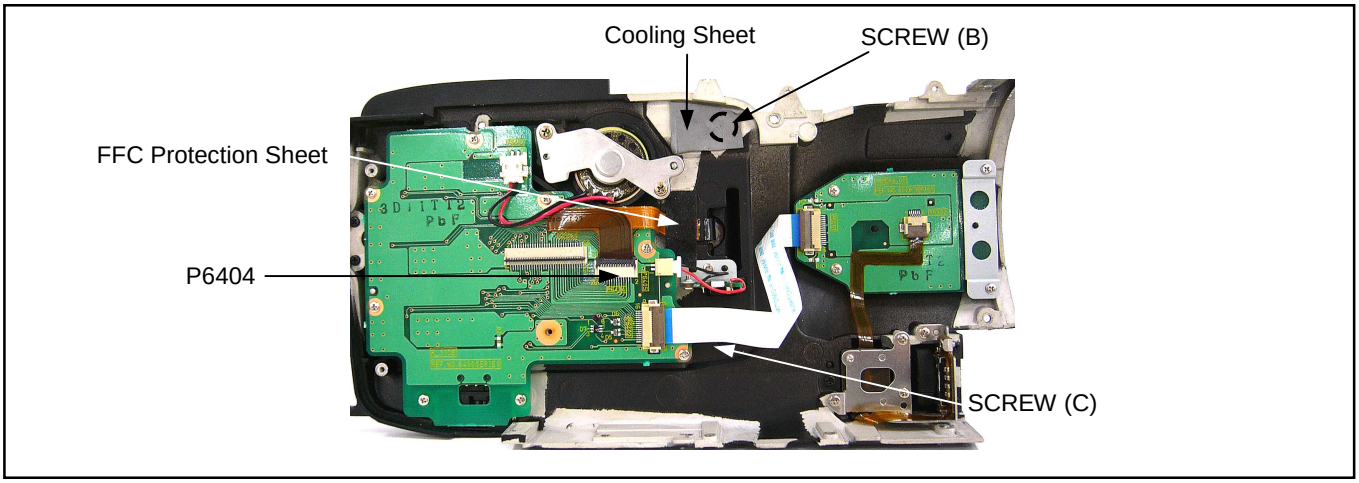


Figure 12-2

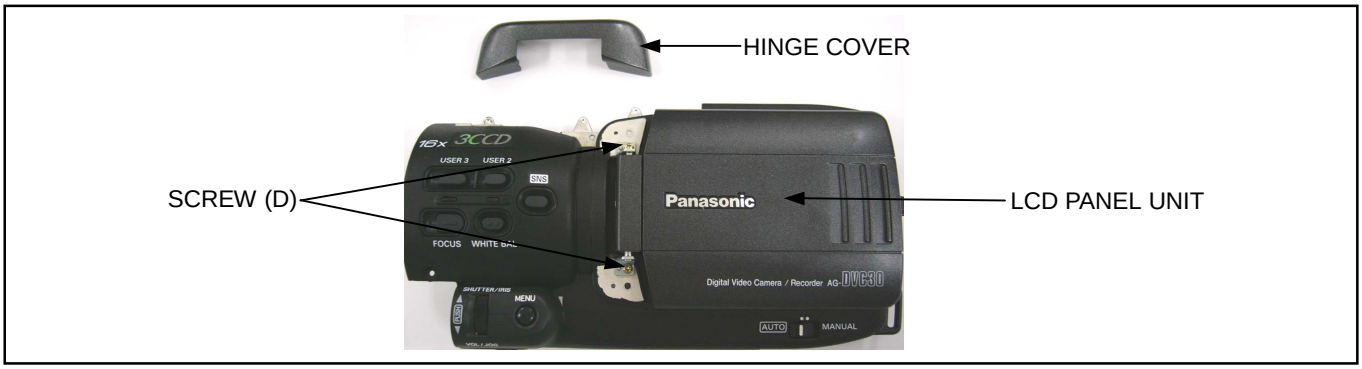


Figure 12-3

13. Removal of EVF Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of TOP VF Unit.
4. Disconnect connector P1 on EVF CONNECT C.B.A. as shown in figure 13-1.
5. Unscrew the 4 screws (A) and remove the EVF Unit and EVF SLIDER Unit from EVF LCD HOLD Unit as shown in figure 13-2.
6. Unscrew the 3 screws (B) and remove the EVF SLIDE COVER as shown in figure 13-3.
7. Unscrew the 4 screws (C) and remove the EVF Unit from EVF SLIDER Unit as shown in figure 13-4.

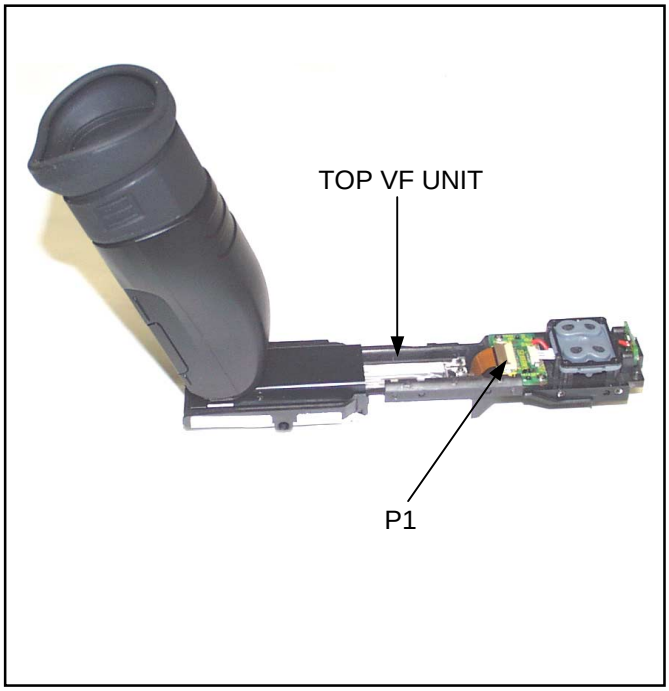


Figure 13-1

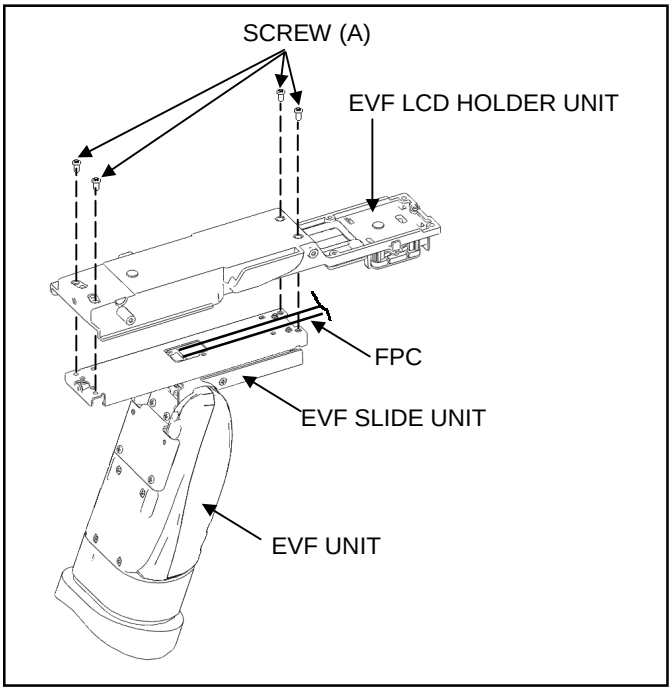


Figure 13-2

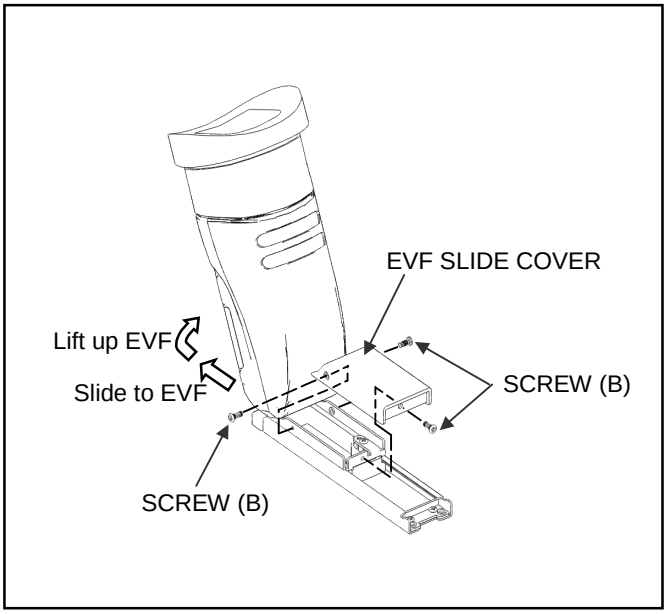


Figure 13-3

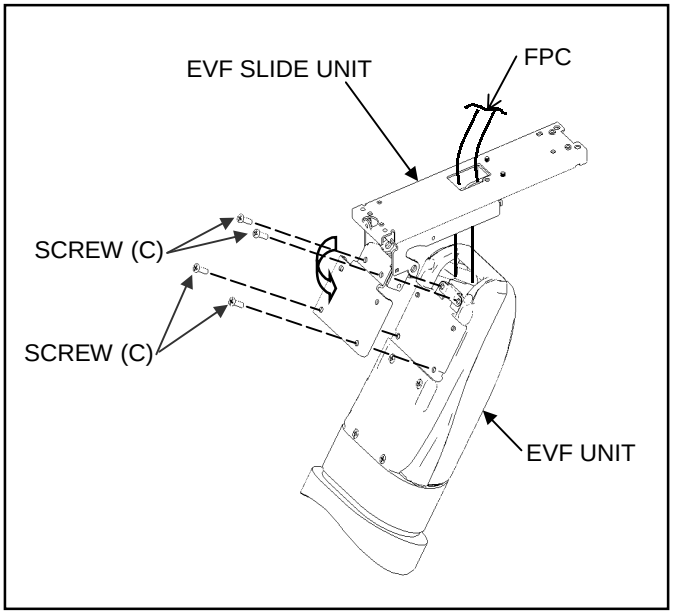


Figure 13-4

AG-DVC30P				AG-DVC30E, DVC32EN, DVC33MC			
Ref. No.	**Parts No.**	**C.B.A.**	**Page**	**Ref. No.**	**Parts No.**	**C.B.A.**	**Page**
E1	VEP01952A	POWER	EPL-1	E1	VEP01952A	POWER	EPL-15
E2	VEP03G60A	VTR	EPL-3	E2	VEP03G60B	VTR	EPL-17
E3	VEP23598A	CAMERA	EPL-7	E3	VEP23598B	CAMERA	EPL-21
E4	VEP06F67A	FRONT	EPL-11	E4	VEP06F67A	FRONT	EPL-25
E5	VEP04861A	SIDE JACK FPC	EPL-11	E5	VEP04861A	SIDE JACK FPC	EPL-25
E6	VEP001G1A	SUB REC	EPL-11	E6	VEP001G1A	SUB REC	EPL-25
E7	VEP01957A	DC IN	EPL-11	E7	VEP01957A	DC IN	EPL-25
E8	VEP01953A	BATTERY	EPL-11	E8	VEP01953A	BATTERY	EPL-25
E9	VEP06F66A	ZOOM FPC	EPL-12	E9	VEP06F66A	ZOOM FPC	EPL-26
E10	VEP001E3A	ZOOM CON	EPL-12	E10	VEP001E3A	ZOOM CON	EPL-26
E11	VEP001E5A	CAS OPEN	EPL-12	E11	VEP001E5A	CAS OPEN	EPL-26
E12	VEP04863A	REAR JACK	EPL-12	E12	VEP04863A	REAR JACK	EPL-26
E13	VEP001E8A	R-SIDE FPC	EPL-12	E13	VEP001E8A	R-SIDE FPC	EPL-26
E14	VEP06F68A	R-SIDE	EPL-12	E14	VEP06F68A	R-SIDE	EPL-26
E15	VEP06F64A	CAMARA OP	EPL-12	E15	VEP06F64A	CAMARA OP	EPL-26
E16	VEP001E1A	LCD OPEN	EPL-12	E16	VEP001E1A	LCD OPEN	EPL-26
E17	VEP001E4A	TALLY	EPL-12	E17	VEP001E4A	TALLY	EPL-26
E18	VEP001E0A	EVF CON	EPL-12	E18	VEP001E0A	EVF CON	EPL-26
E19	VEP04828A	MIC U	EPL-13	E19	VEP04828A	MIC U	EPL-27
E20	VEP28272B	EVF A	EPL-13	E20	VEP28272B	EVF A	EPL-27
E21	VEP28275B	EVF B	EPL-13	E21	VEP28275B	EVF B	EPL-27
E22	VEP001G2A	MENU FPC	EPL-13	E22	VEP001G2A	MENU FPC	EPL-27
E23	VEP26257B	MONITOR	EPL-13	E23	VEP26257B	MONITOR	EPL-27

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST
AG-DVC30P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Components identified with the mark ⚠ have special characteristics for safety.
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AG-DVC30E, AG-DVC32EN, AG-DVC33MC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
C401,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C403-06	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C407,08	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C409,10	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C411-13	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C414-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C451	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C452-54	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C455	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C456,57	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C458	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C459,60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C461	F3H1D2260003	T.CAPACITOR CH 20V 22U	1	
D401-04	MA3J14300L	DIODE	4	
D451	MA142K	DIODE	1	
IC401,02	NJM2122M	IC	2	
IC403,04	TA75W558FU	IC	2	C0ABBA000042
IC405,06	TC7W53FU	IC	2	
IC451	TC7W53FU	IC	1	
IC452	TA75W558FU	IC	1	C0ABBA000042
IC453	AN77L09M	IC	1	
P451	K1ZZ00001280	CONNECTOR	1	
P452	VJS3846A030	CONNECTOR (FEMALE)	1	
P453	K1KA08A00434	CONNECTOR (MALE)	1	
P454	K1ZZ00001280	CONNECTOR	1	
Q401	2SD1819A-R	TRANSISTOR	1	
Q451	2SD1819A-R	TRANSISTOR	1	
QR401,02	UNR521300L	TRANSISTOR	2	
QR403,04	UNR511300L	TRANSISTOR	2	
QR405,06	UNR521300L	TRANSISTOR	2	
R401,02	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	2	
R403	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R405	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R407-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R419	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R420	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R422,23	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R424,25	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R426,27	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R451-53	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	3	
R454	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R455	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R456	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R457,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R459,60	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R463-65	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
C1801	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1802	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1803,04	VCK0303K225	C.CAPACITOR 2.2U	2	
C1806	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1809	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1811	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1812	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1813	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1815	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C1816	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C1818	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1819-24	VCK0303K225	C.CAPACITOR 2.2U	6	
C1825	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1826	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1827	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C1828	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1829	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1830	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1831	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1832	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1833	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
D1803	MA111	DIODE	1	
D1805	MA2S11100L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	U1GU44	DIODE	1	
D1809	MA3J70000L	DIODE	1	
D1811	MA3S132E0L	DIODE	1	
D1812	MA8120-M	DIODE	1	
D1813,14	MAZ82700ML	DIODE	2	
IC1802	BA9743AFV	IC	1	C0DBAZC00010
L1801,02	J0JBC0000019	FILTER	2	
L1803	G1C100K00016	COIL 10UH	1	
L1804	VLQ0319K100	COIL 10UH	1	G1C100K00023
L1805	G1C331M00006	COIL 330UH	1	
L1806,07	G1C100K00019	COIL 10UH	2	
P1801	K1ZZ00001279	CONNECTOR	1	
P1802	K1KA02A00079	CONNECTOR (MALE)	1	
Q1801	B1ADCF000059	TRANSISTOR	1	
Q1803	B1DHCC000029	TRANSISTOR	1	
Q1805	XP0460100L	TRANSISTOR	1	
Q1806	2SJ278	TRANSISTOR	1	
Q1807	XP0460100L	TRANSISTOR	1	
Q1808	2SD1328-R	TRANSISTOR	1	
QR1801	UNR9214J0L	TRANSISTOR	1	
QR1802	UNR9113J0L	TRANSISTOR	1	
QR1803	UN9112J	TRANSISTOR	1	
QR1804,05	UN9213	TRANSISTOR-RESISTOR	2	
QR1806,07	UNR9113J0L	TRANSISTOR	2	
R1801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1802	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1804	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1806	ERJ3RHD243	M.RESISTOR CH 1/16W 24K	1	
R1807	ERJ3RHD393	M.RESISTOR CH 1/16W 39K	1	
R1808,09	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	
R1810	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1812	ERJ3RHD683	M.RESISTOR CH 1/16W 68K	1	
R1813	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1816,17	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ3RHD223	M.RESISTOR CH 1/16W 22K	1	
R1819	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1820	ERJ3RHD271	M.RESISTOR CH 1/16W 270	1	
R1826	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1827	ERJ3RHD104	M.RESISTOR CH 1/16W 100K	1	
R1828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1829	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1830	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1831	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1832	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1833	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1837	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1838	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1841	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1842	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1843	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1844	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1845	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R1846	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1847	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1849,50	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1851,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1854	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1856	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1801	G5DYA0000051	TRANSFORMER	1	
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
C301,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C303	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C304,05	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C306	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C310	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C351,52	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C353	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C354,55	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C356	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
J301	K1AB103A0007	CONNECTOR (MALE)	1	
J351	K1AB103A0007	CONNECTOR (MALE)	1	
L301,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L303	VLF1315A102	FILTER	1	J0JHC0000015
L305	VLF1315A102	FILTER	1	J0JHC0000015
L307	VLF1315A102	FILTER	1	J0JHC0000015
L351,52	VLQ0163J100	COIL 10UH	2	G1C100J00001
L353	VLF1315A102	FILTER	1	J0JHC0000015
L355	VLF1315A102	FILTER	1	J0JHC0000015
L357	VLF1315A102	FILTER	1	J0JHC0000015
P301	VJS3826A013	CONNECTOR (FEMALE)	1	
P302	K1KA02A00079	CONNECTOR (MALE)	1	
P351	VJS3826A013	CONNECTOR (FEMALE)	1	
Q301	2SB1220-R	TRANSISTOR	1	
Q302	2SD1824	TRANSISTOR	1	
Q351	2SB1220-R	TRANSISTOR	1	
QR301	UNR521300L	TRANSISTOR	1	
QR351	UNR521300L	TRANSISTOR	1	
R303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R305,06	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R307	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R308	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R309,10	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R311,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R313,14	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R353	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355,56	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R357	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R358	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R359,60	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R361,62	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R363,64	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
D201	MA142WK	DIODE	1	
P251	K1KA30B00055	CONNECTOR (MALE)	1	
P252,53	VJS3826A013	CONNECTOR (FEMALE)	2	
QR251,52	UNR521300L	TRANSISTOR	2	
R201,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R206	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R208,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R212	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R251,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW201	K0D142A00034	SWITCH	1	
SW202-04	K0D122A00126	SWITCH	3	
SW205	K0D142A00034	SWITCH	1	
SW206,07	K0D122A00126	SWITCH	2	
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
C101,02	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
P101	K1ZZ00001279	CONNECTOR	1	
R101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R105-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
VR101,02	D2BBA14A0002	V.RESISTOR 10K	2	

ELECTRICAL ADJUSTMENT PROCEDURE

1. ADJUSTMENT SYSTEM

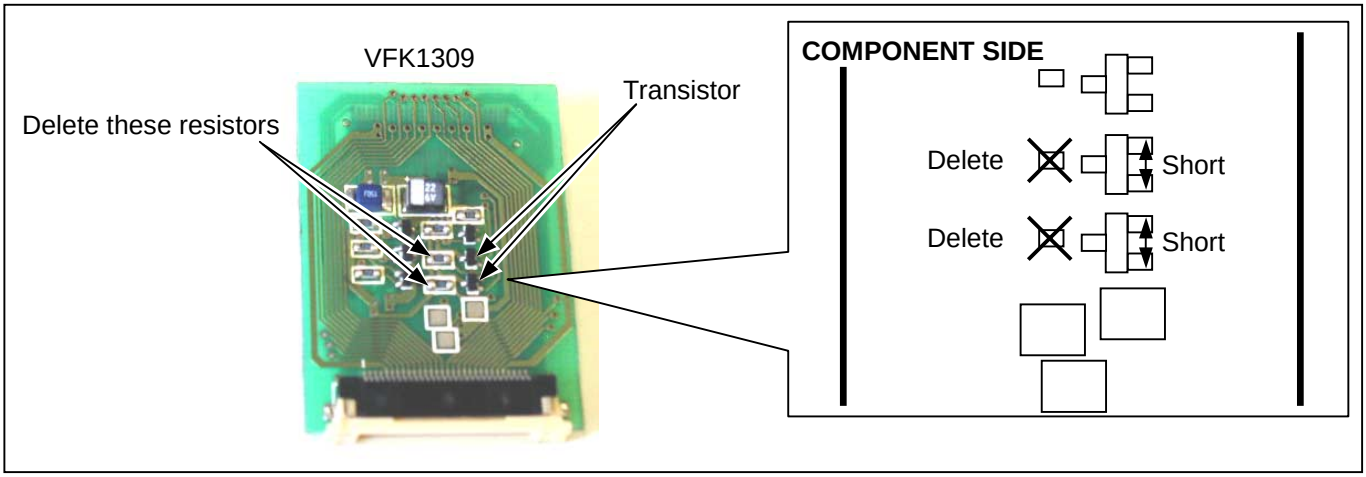
When performing the electrical adjustment, the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
Connector Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
DC Cable	VJA1128 or LSJ0310	1	
9pin RS232C cross cable	---	1	
AC Adapter	---	1	
Personal Computer	---	1	

NOTE:
1. VFK1309 can be used for this adjustment system except LCD adjustment.
2. If you have VFK1309, it can be modified to VFK1309A as following specification.

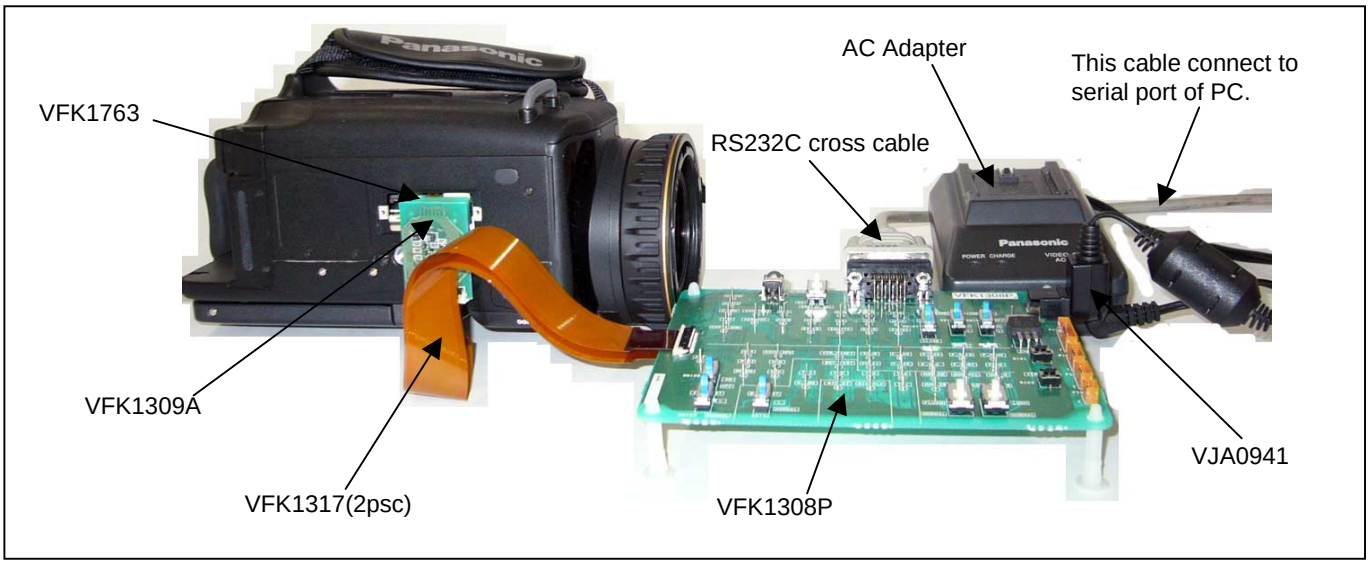
1-1. Modification procedure of VFK1309

1. Delete 2 pieces of resistor as shown in figure.
2. Short between emitter and base of 2 pieces of transistor as shown in figure.



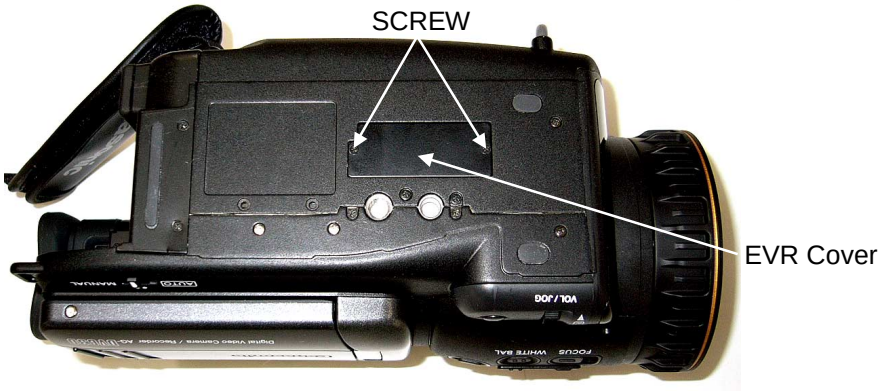
1-2. Connection

Please refer to next item 1-3 as detail explanation.



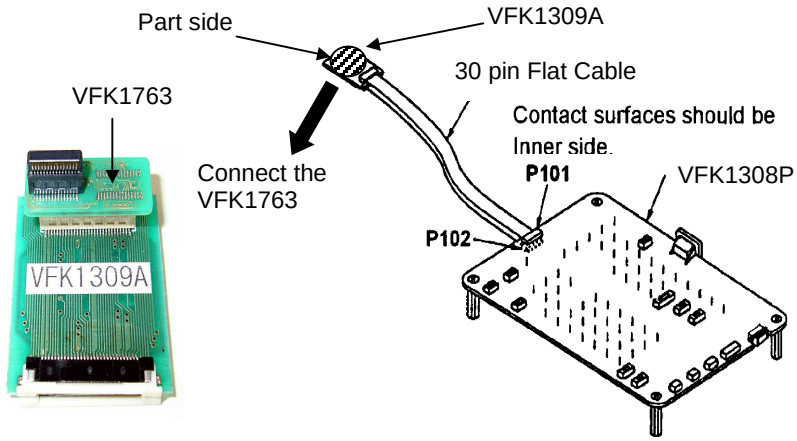
1-3. System Hook up Procedures

1. Unscrew the 2 screws and remove the EVR cover.



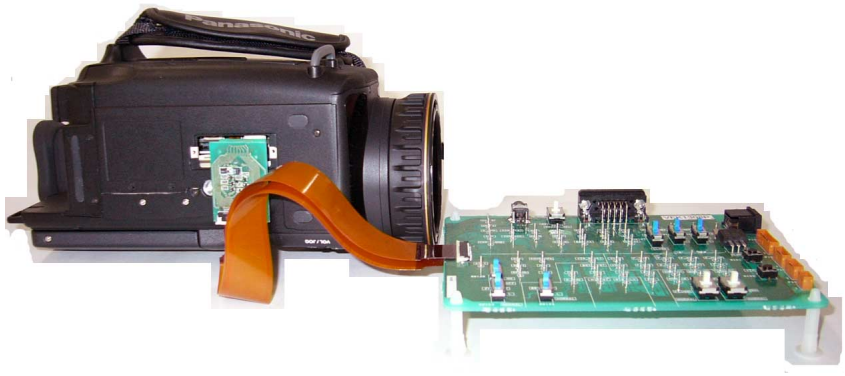
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figures. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is installed backwards, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in camera recorder. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When connecting VFK1763 to the EVR connector, be careful that it is installed in the correct direction. Please follow as shown in the figure.



4. Supply DC6V-9V to the Measuring Board (VFK1308P). Please use the DC cable (VJA0941) and AC Adapter to supply DC voltage to Measuring Board.
5. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.
6. Unless otherwise specified on the message of the EVR software or this adjustment procedure, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	NORMAL
BST TEST (SW104)	NORMAL
SW107	CENTER position
SW108	H
SW105	H
SW106	OFF
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT

Below indicated tools are required to perform each adjustment in addition to tools in introduced in item1.

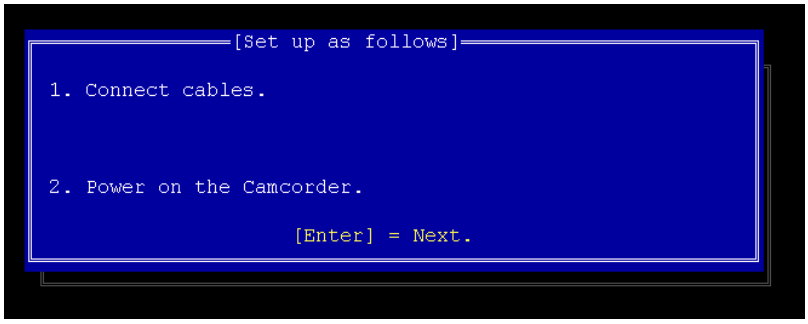
Adjustment	Item	Required Tool	Remark
Camera	Zoom SW center value adjustment	Unnecessary	**NOTE**
	Iris Hall Amp (Auto)	Unnecessary	
	Iris PWM Bias (Auto)	Unnecessary	
	ND Hall Amp (Auto)	Unnecessary	
	ND PWM Bias (Auto)	Unnecessary	
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	43mm Attachment Ring (VFK1164TAR43)	
		Collimator Set (VFK1164TCM01)	
	CCD White scratch damage revision (Auto)	Unnecessary	
	White Balance (3100K)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB80) (VFK1342)	PAL model only
		CC filter (CC C20) (VFK1887)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		CC filter (CC C10) (VFK1886)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Shading	Halogen lamp	
VTR	Sensitivity adj of Tape sensor (Auto)	Tape End/Beg. Detect Cassette (VFK1217)	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only
	Luminance Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
	Chroma Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
LCD	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	
EVF	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	

NOTE: The Zoom SW center value adjustment is contained in Camera adjustment menu but it is not on adjustment of the camera system.

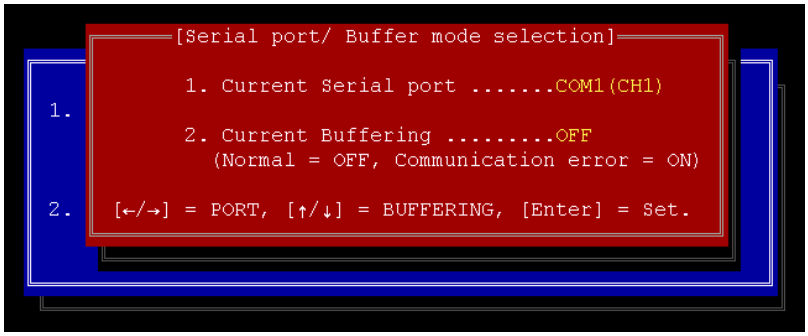
3. PC EVR (ADJUSTMENT) SOFTWARE

3-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. Copy all files of EVR software (VFK1908:NTSC / VFK1909:PAL) to created directly on PC.
2. Restart the PC in DOS mode.
3. In case NTSC software, type **"dvc30p"** and press ENTER key, then EVR software boot up.
   In case PAL software, type **"dvc30e"** and press ENTER key, then EVR software boot up.
4. Wait for a few seconds so that the EVR adjustment program is started.

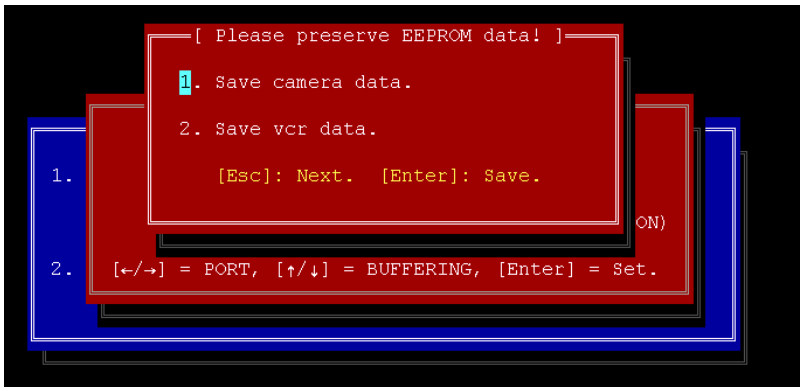


PRESS ENTER KEY



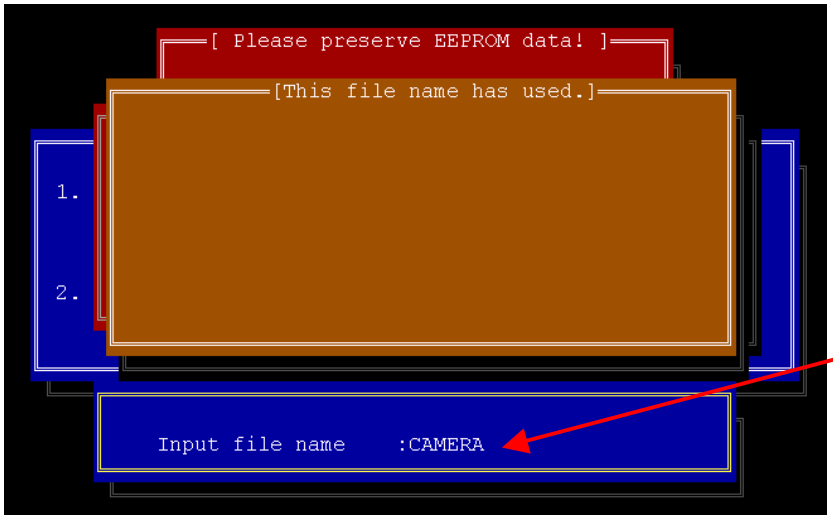
PRESS ENTER KEY

NOTE:
In case of communication error occurred in DOS mode, please try to boot an EVR software in MS-DOS WINDOWS screen.

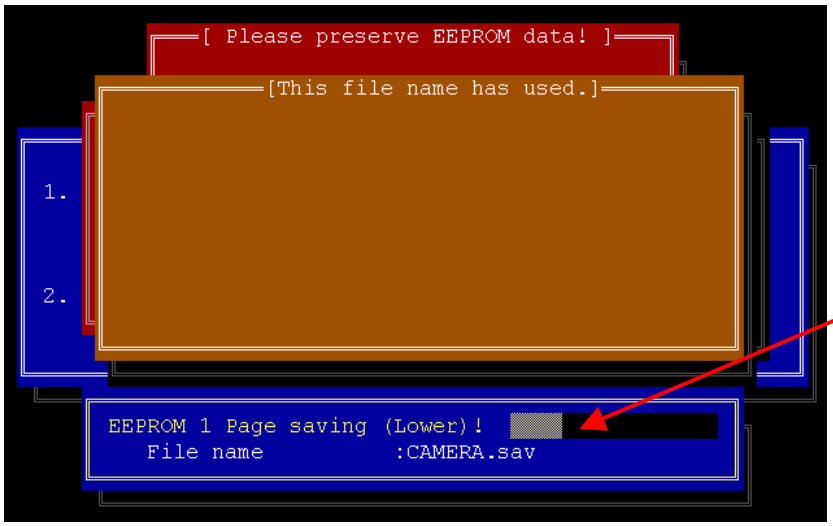


Normally this screen is appears. We recommended storing the EEPROM data before starting adjustment. If you want to skip storing the data, PRESS ESC KEY, then go storing to Main menu.
NOTE: It is only adjustment data that is actually saved.

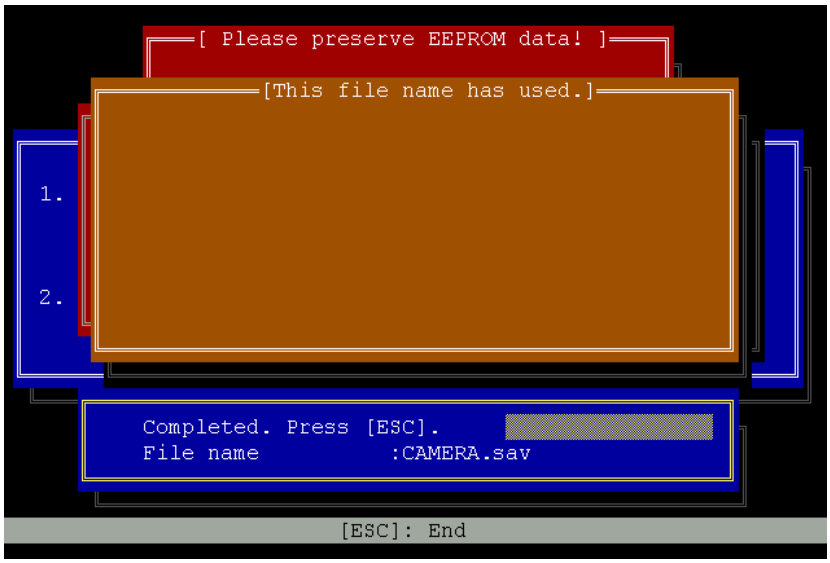
In case of select No.1



Input file name and PRESS ENTER KEY.



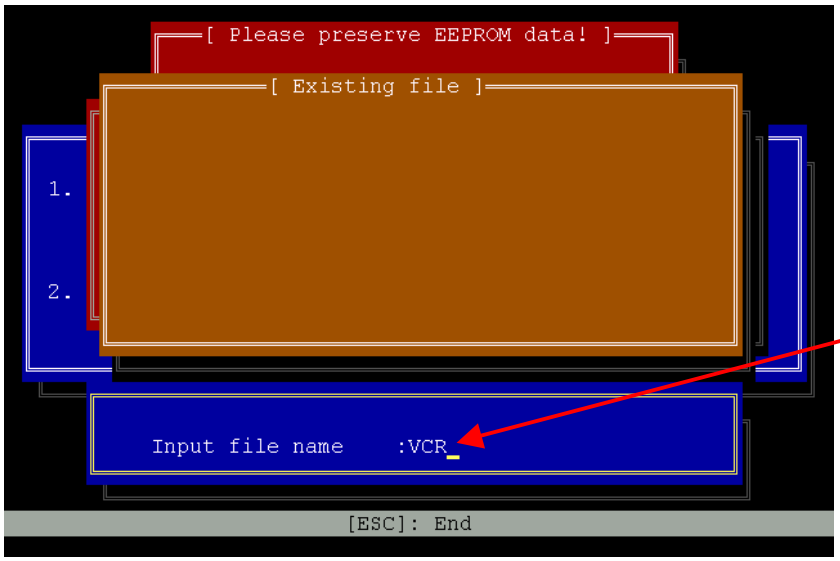
Saving the data is started.



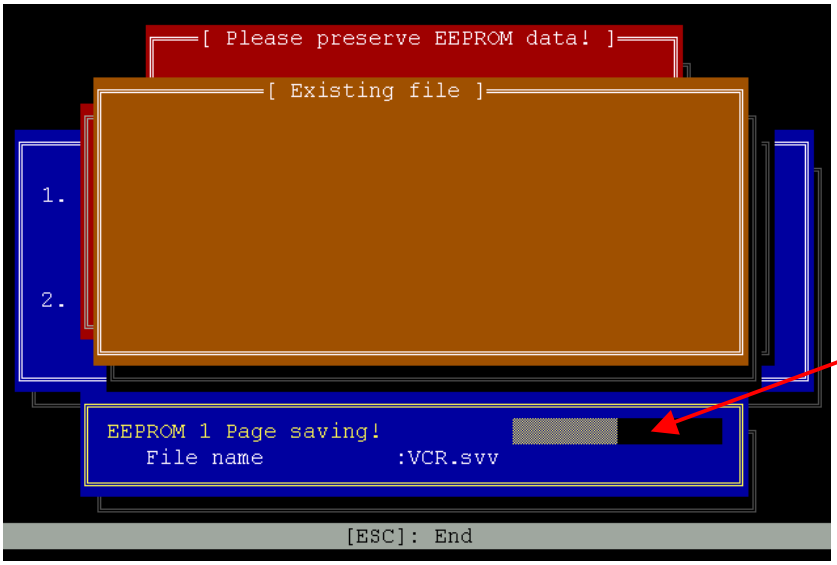
When the data is stored completed, this screen is appears. PRESS ESC KEY.



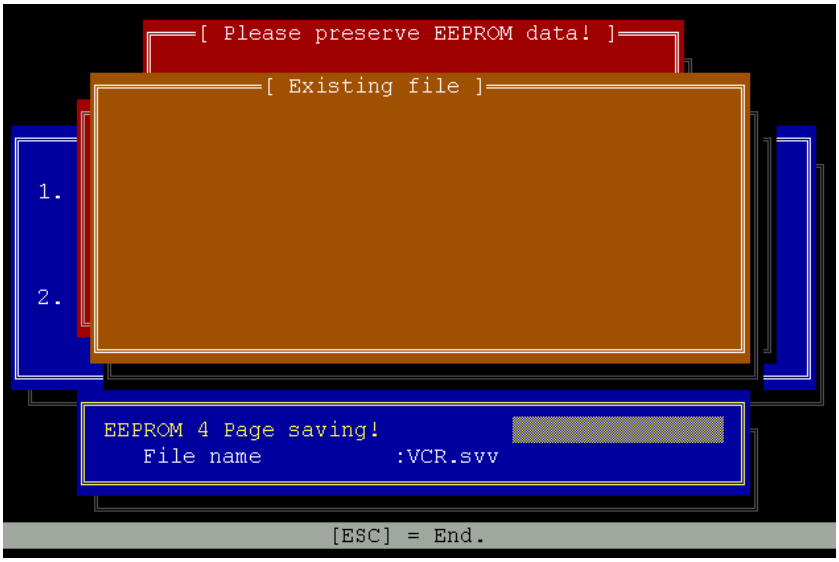
Return to this screen and in case of select No.2, PRESS ENTER KEY.



Input file name and PRESS ENTER KEY.



Saving the data is started.

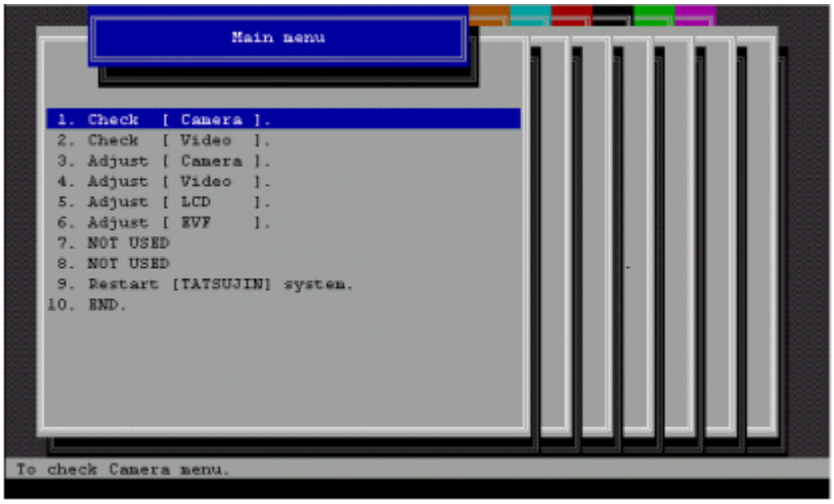


When the data is stored completed, this screen appears. PRESS ESC KEY.

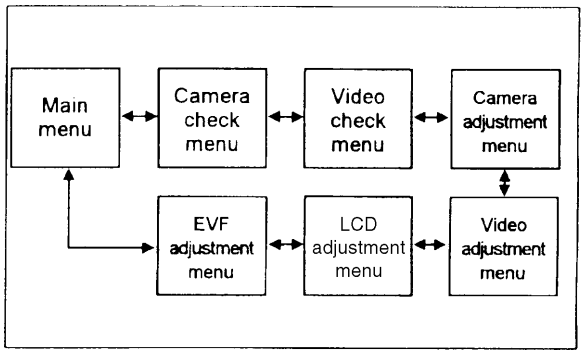
3-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press **"ENTER"** Key. the Sub Menu will be displayed.

NOTE: Menu (pages) 3,4,5 and 6 are needed for adjustment.

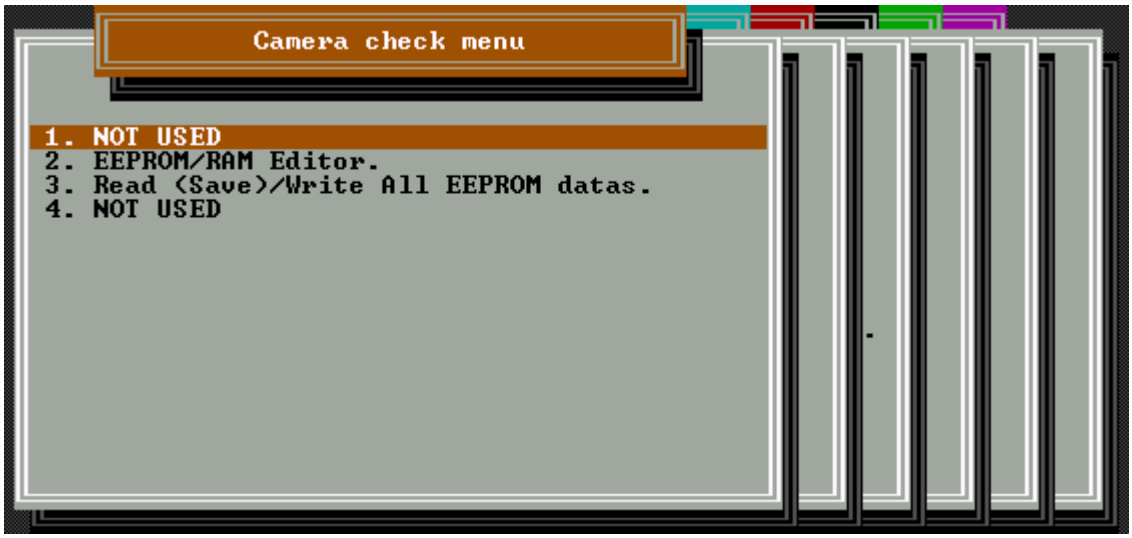


With using ←→ keys, the menu can also be changed.

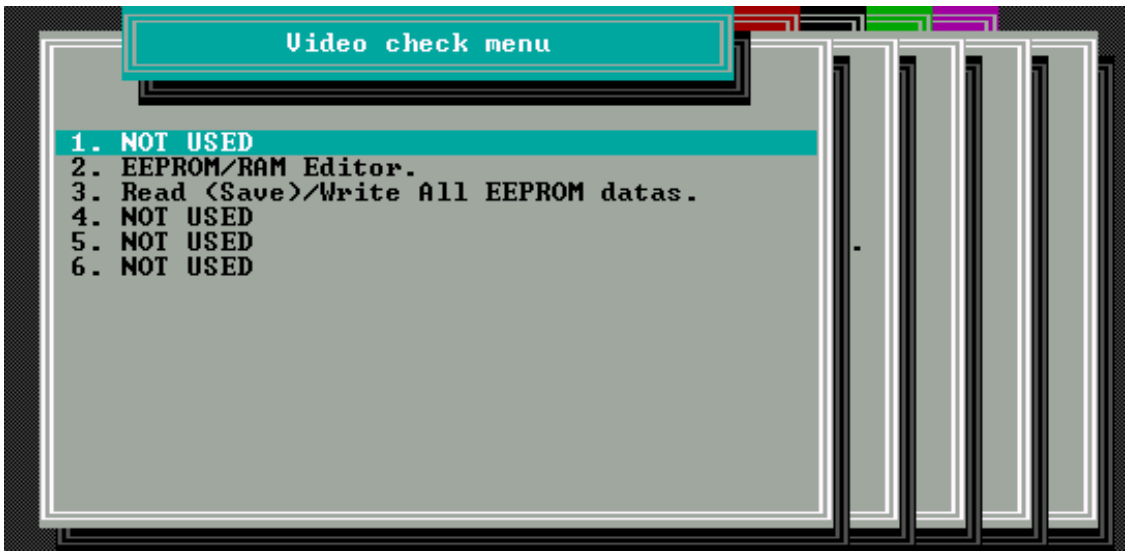


3-3. Introduction of the Sub Menu

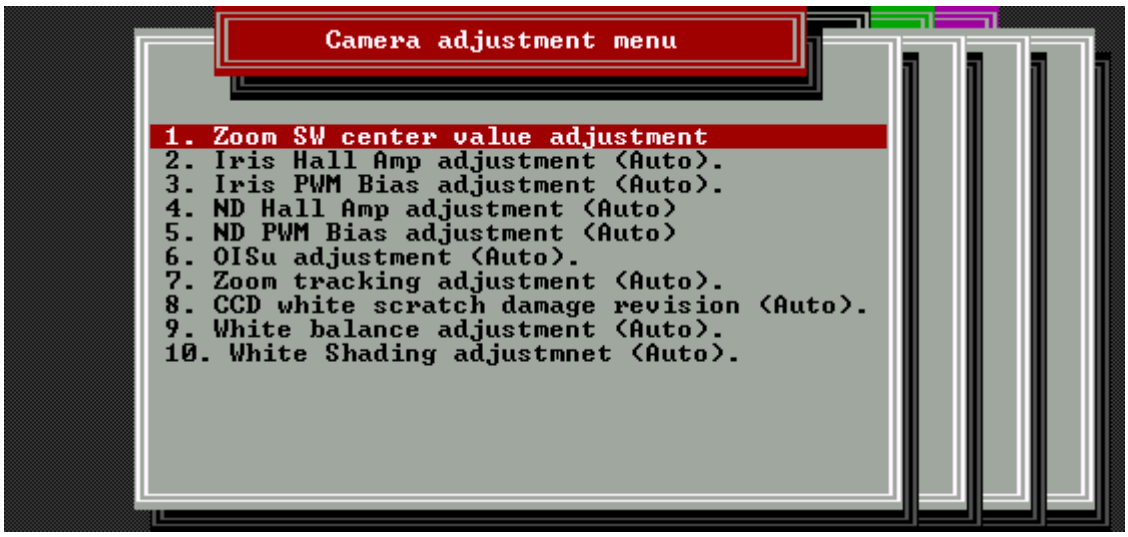
1) Camera Check Menu



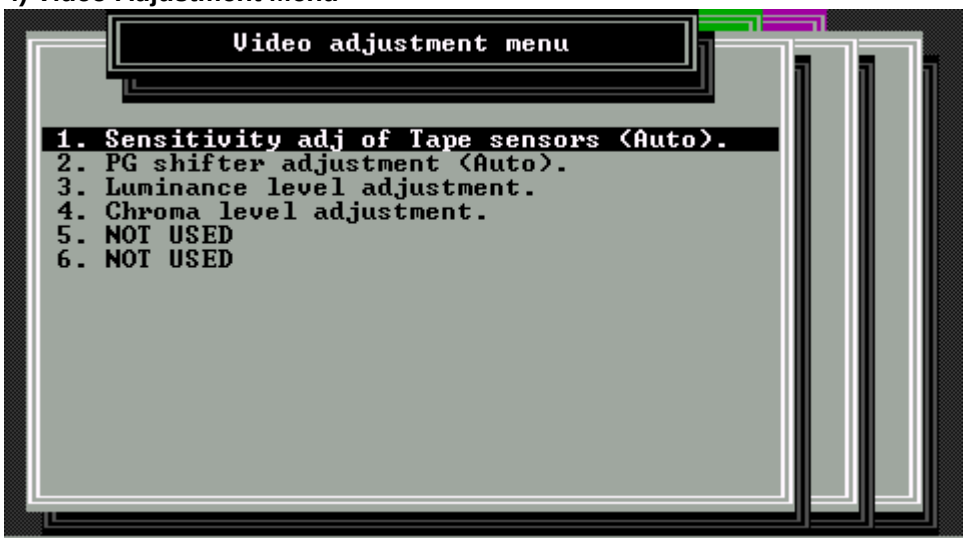
2) Video Check Menu



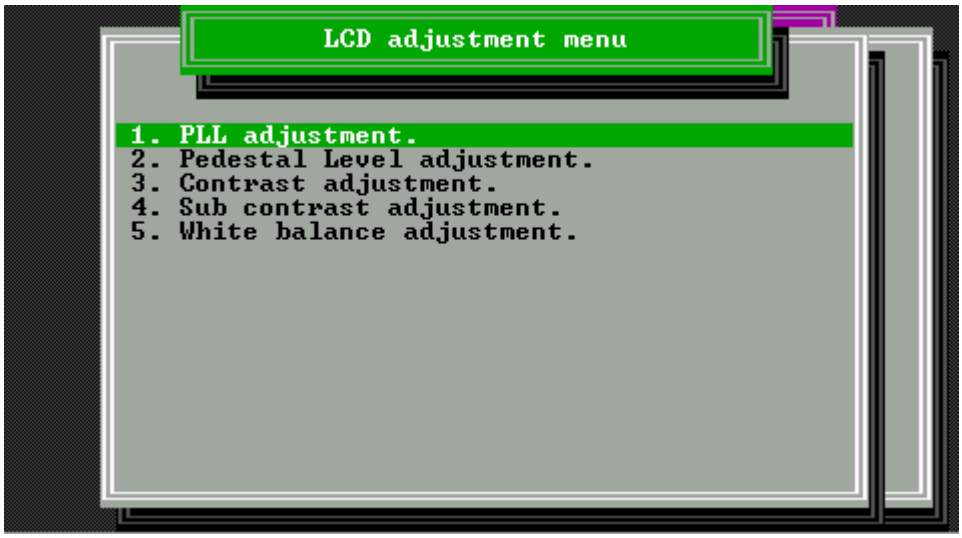
3) Camera Adjustment Menu



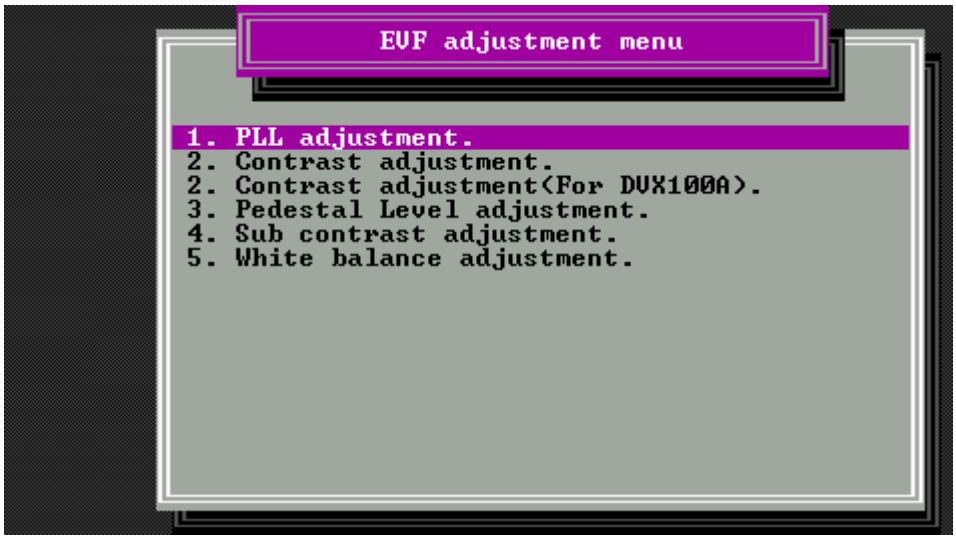
4) Video Adjustment Menu



5) LCD Adjustment Menu



6) EVF Adjustment Menu



4. EEPROM

All adjustment data has been stored in the EEPROM.
There are two EEPROM in this camera recorder as shown in the table below.

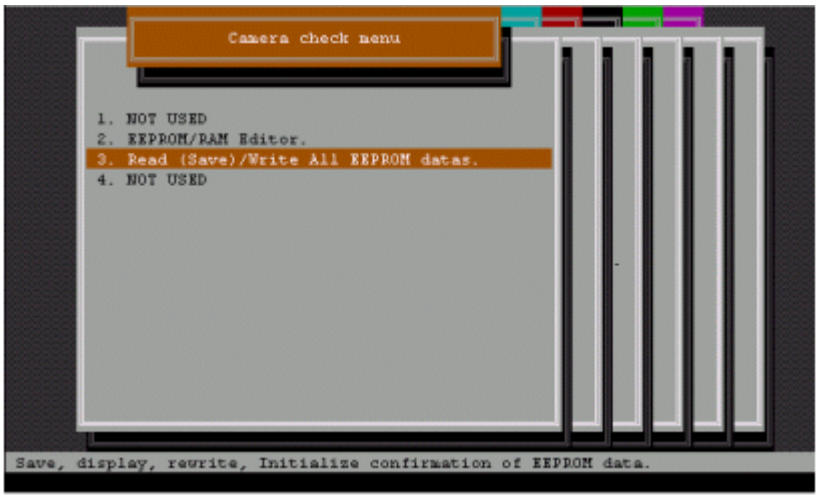
NAME	REF. No.
CAMERA EEPROM	IC3006 (CAMERA C.B.A.)
VTR EEPROM	IC2008 (VTR C.B.A.)

NOTE:
To save the EVR adjustment data to the EEPROM, follow items 4-1, 4-2, and 4-3. There is also additional data stored in this EEPROM (This EVR software can save or write only adjustment data).

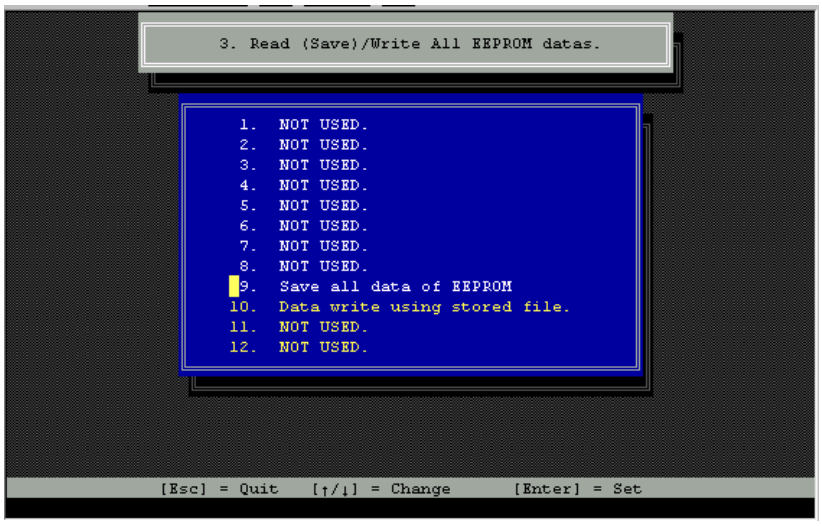
NOTE:
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

4-1. How to Save Camera Adjustment Data

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.



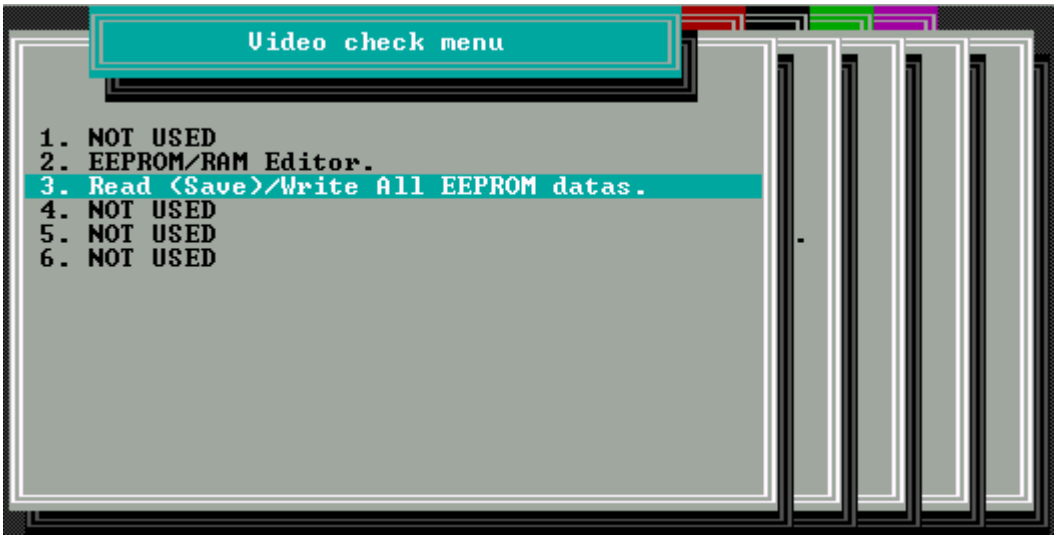
3. Select **"9. Save all data of EEPROM"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.



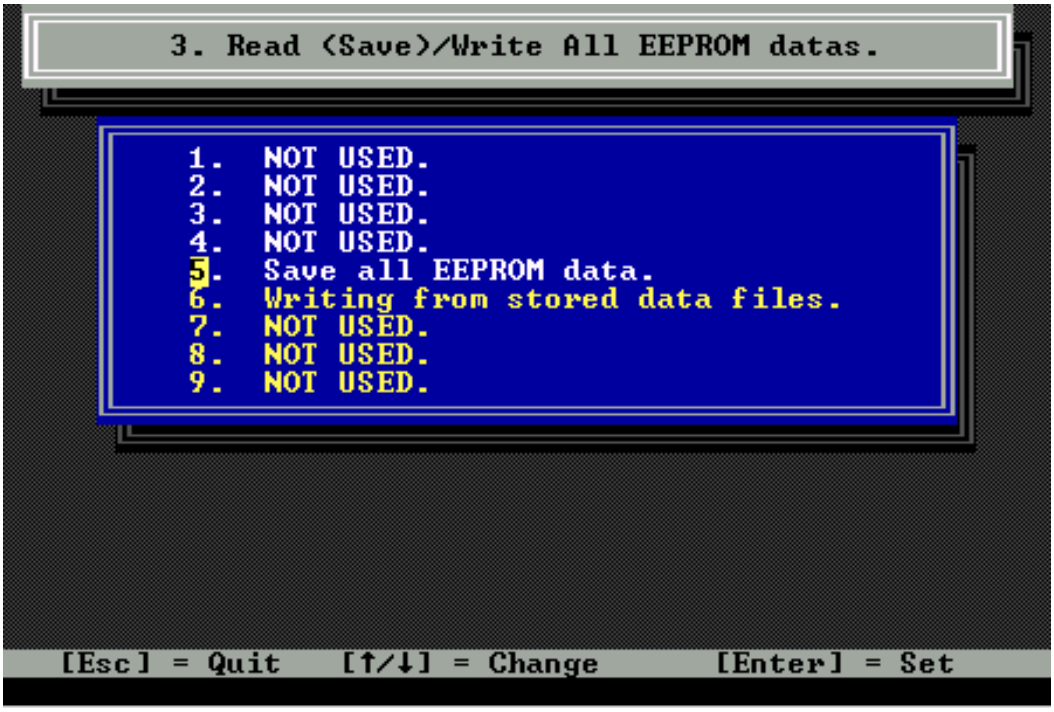
4. Type the File name and, then press the **"Enter"** key. The data of adjustment value can be stored in the personal computer. (Please refer to item **"3-1. BOOT UP THE ADJUSTMENT SOFTWARE"**)

4-2. How to Save VTR Adjustment Data

1. Select **"Video Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Video check menu, and then press the **"Enter"** key.



3. Select **"5. Save all EEPROM data"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.



4. Type the File name, and then press the **"Enter"** key. The data of adjustment value will be stored in the personal computer.

4-3. REWRITE Adjustment Data

4-3-1. How to Rewrite Adjustment data on Camera C.B.A.

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.
3. Select **"10. Data write using stored file"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.
4. Type the saved file name, and then press the **"Enter"** key.
5. Select **"9. EEPROM ALL (2 Kbyte)"**, and then press the **"Enter"** key.
6. The adjustment data will be written in EEPROM (IC3006).

4-3-2. How to Rewrite Adjustment data on VTR C.B.A.

1. Select **"Video Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Video check menu, and then press the **"Enter"** key.
3. Select **"6. Writing from the stored data files"** in the **"3. Read (Save) / Write All EEPROM datas"** menu, and then press **"Enter"** key.
4. Type the saved file name, and then press the **"Enter"** key.
5. Select **"5. Write EEPROM (1024 byte)"**, and then press the **"Enter"** key.
6. The adjustment data can be written in EEPROM (IC2008).

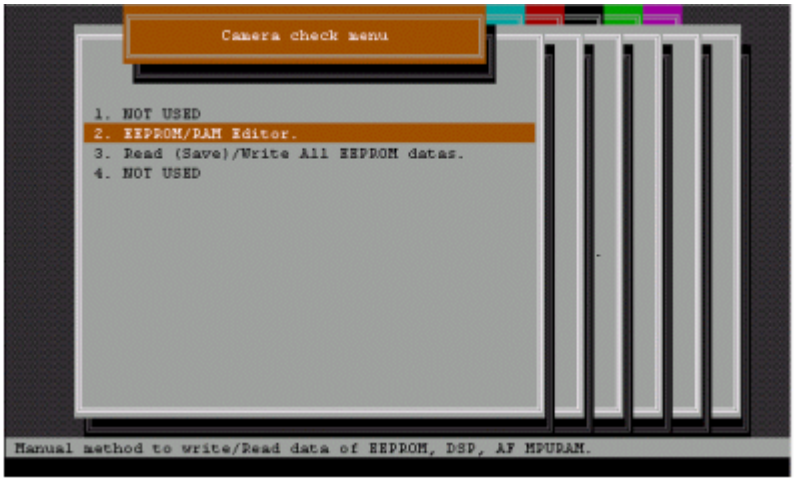
4-4. How to change the EEPROM Data.

EEPROM data can be changed individuality address unit. When changing EEPROM data with this EVR software, it uses item "2. EEPROM/RAM Editor" of each check menu.

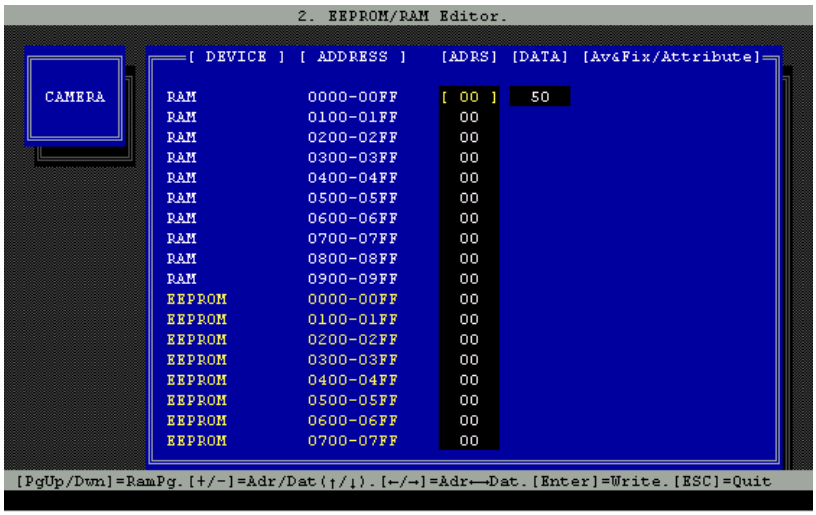
NOTE: Before changing the Camera or VTR EEPROM data, be sure to save ALL EEPROM data into the personal computer to avoid any accidental data loss. Regarding the saving method, refer to item 4-1 and 4-2 in this section.

4-4-1. How to change the CAMERA EEPROM data.

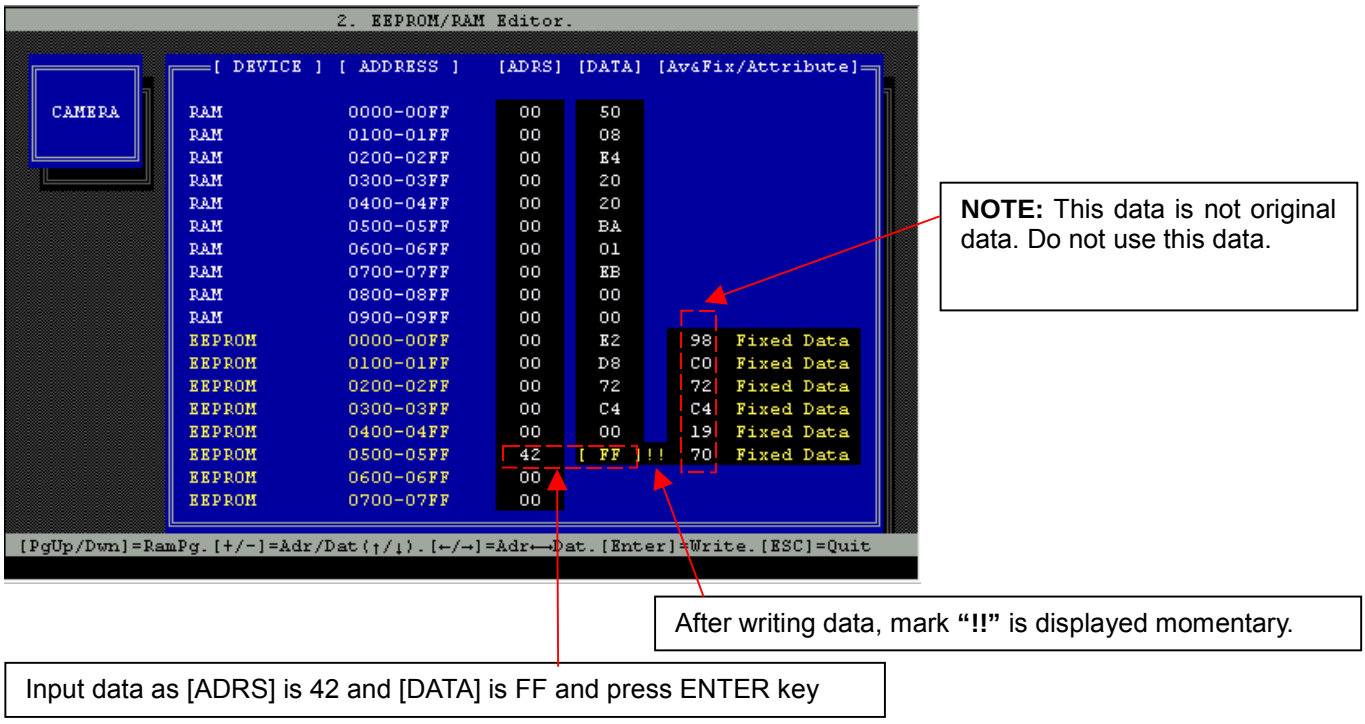
1. Boot up EVR software and open the Camera check menu.
2. Select **"2. EEPROM/RAM Editor"** and press **"ENTER"** key.



3. Below indicated screen is displayed.



4. In case of data is change to FF from 70 on address 0542, select a line **"EEPROM 0500-05FF"** by arrow key (↑/↓) and input a value as 42 to column [ADRS]. Next cursor is moved to column [DATA] by arrow key (→/←) and input a value as FF. And press ENTER key to write to EEPROM.



NOTE: This data is not original data. Do not use this data.

After writing data, mark **"!!"** is displayed momentary.

Input data as [ADRS] is 42 and [DATA] is FF and press ENTER key

5. Please change the other part of address data follow the above description.

NOTE: The address is indicated as 4 digits of numerical value. Select the line based on first 2 digit and value behind 2 digit is input value to column [ADRS].

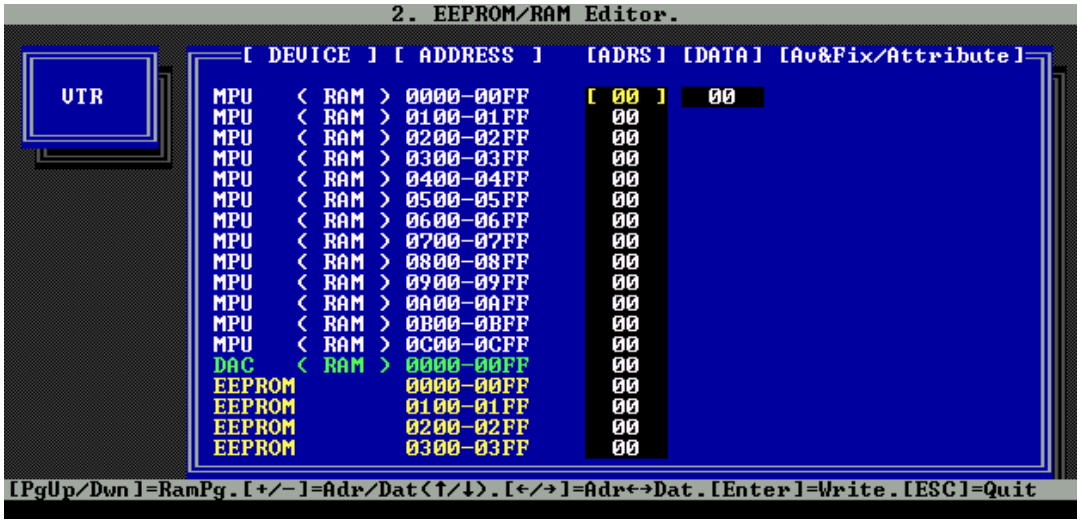
EEPROM	0000-00FF ← In case of 00ED, select the line of **"0000-00FF"**.
EEPROM	0100-01FF
EEPROM	0200-02FF
EEPROM	0300-03FF
EEPROM	0400-04FF
EEPROM	0500-05FF ← In case of 0542, select the line of **"0500-05FF"**
EEPROM	0600-06FF
EEPROM	0700-07FF

4-4-2. How to change the VTR EEPROM data.

1. Boot up EVR software and open the Video check menu.
2. Select **"2. EEPROM/RAM Editor"** and press **"ENTER"** key.



3. Below indicated screen is displayed.



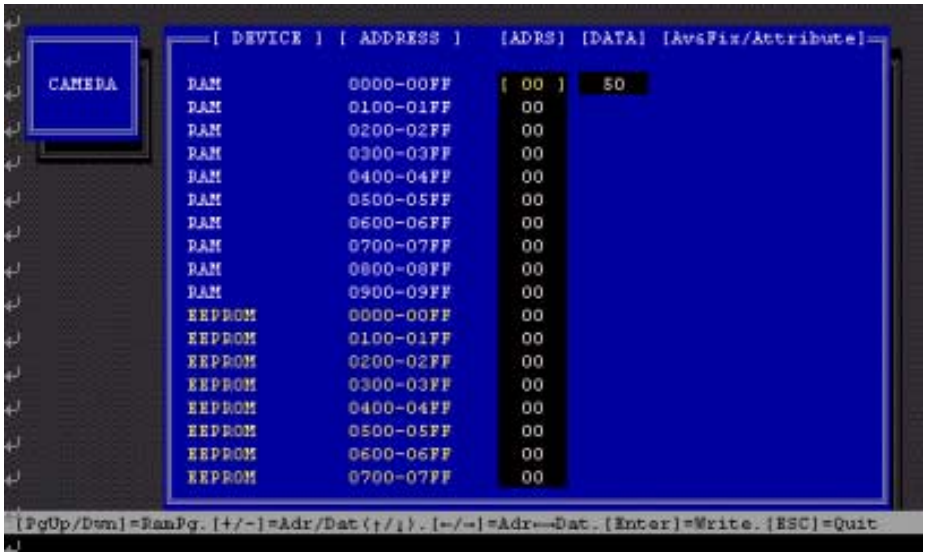
4. How changing the EEPROM data is the same as CAMERA EEPROM refer to previous item 4-4-1.

5. ZOOM SW Center Value Adjustment

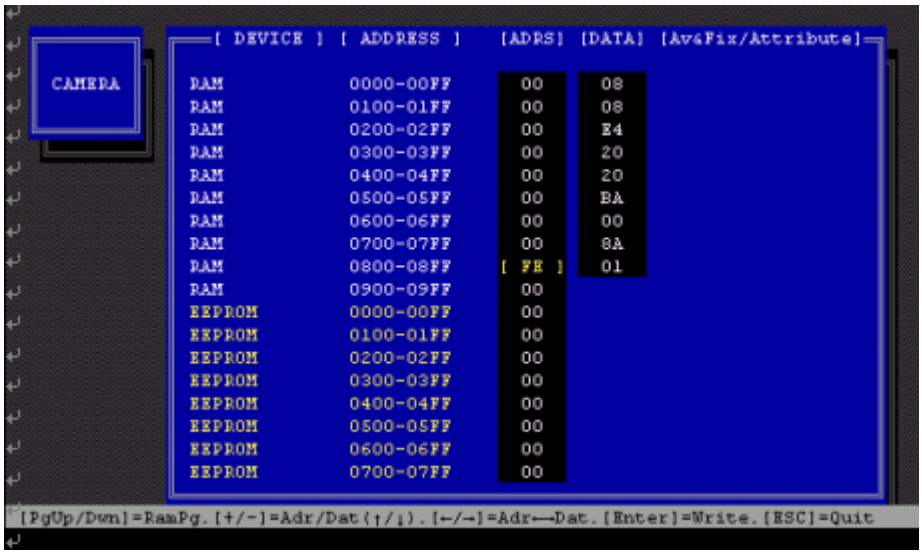
Be sure to save the CAMERA adjustment data into the Personal Computer, before performing adjustment.

This adjustment has to be performed, when the CASSETTE COVER UNIT or ZOOM SW in CASSETTE COVER UNIT is replaced.

1. Open the **"Camera adjustment menu"**.
2. Select **"1. Zoom SW center value adjustment"** in the camera adjustment menu, and then press **"ENTER"** key.
3. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press **"ENTER"** key.
4. Below indicated screen is displayed.



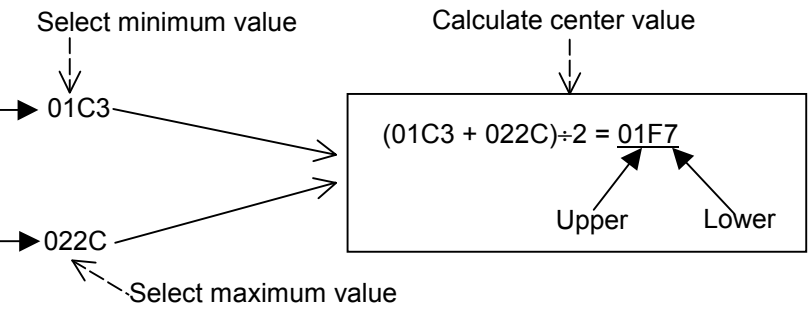
5. Select a line **"RAM 0800 - 08FF"** by arrow key (↑/↓) and input a value as FE to column [ADRS].
6. Press Tele side of zoom switch on Grip Cover side to fully Tele position and release a finger slowly from button.
7. Write down displayed numerical value in column [DATA].



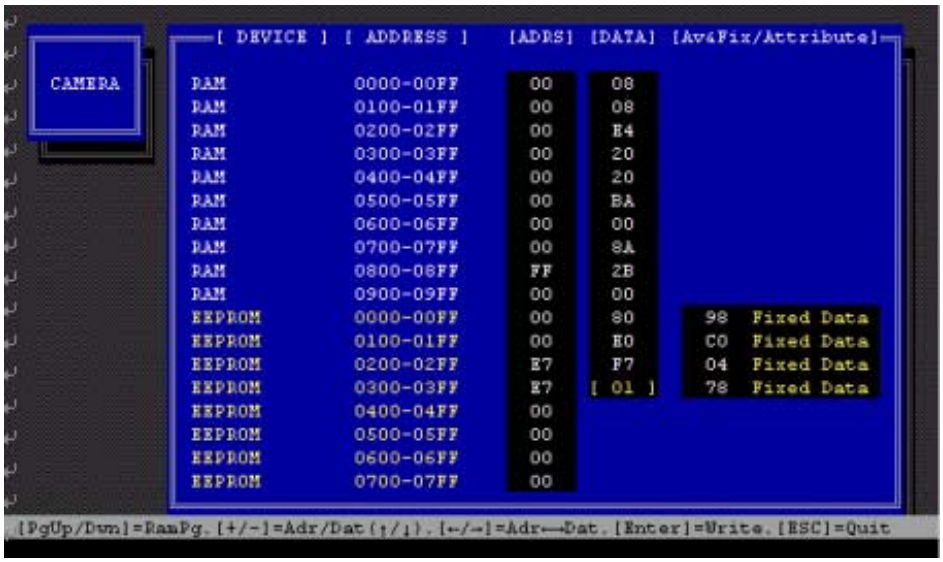
8. Input a value FF to column [ADRS] on line **"RAM 0800 - 08FF"** .
9. Write down displayed numerical value in column [DATA].
10. Repeat step 5 to 9 twice to write down the value.
11. Select the minimum measurement value.
12. Press Wide side of zoom switch on Cassette Cover side to fully wide position and release a finger slowly from button and repeat step 5 to 9 three times.
13. Select the maximum measurement value.

<For example>

---	FE (Upper)	FF (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B



14. Calculate center value of minimum and maximum value.
15. Select a line **"EEPROM 0200 - 02FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
16. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as lower data value (for example: F7 as indicated as above). And press ENTER key to write to EEPROM.
17. Select a line **"EEPROM 0300 - 03FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
18. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as upper data value (for example: 01 as indicated as above). And press ENTER key to write to EEPROM.



6. CAMERA ADJUSTMENT PROCEDURE

Be sure to save the Camera adjustment data into the Personal Computer, before performing adjustment.
Perform all PC-EVR adjustments, by referring to procedures on PC screen.

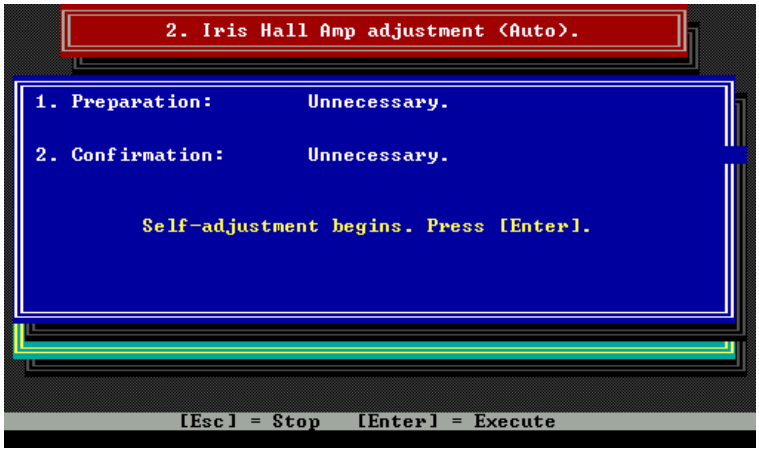
6-1. Iris Hall Amp Adjustment (AUTO)

This adjustment is automatically executed.

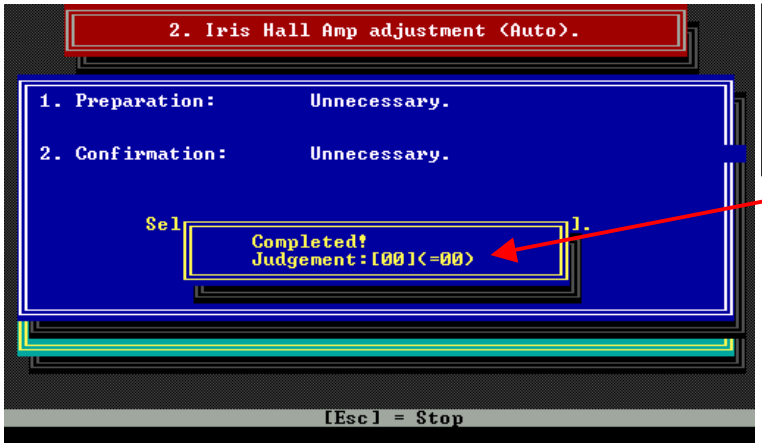
1. Open the **"Camera adjustment menu"**. Please
2. Select **"2. Iris Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

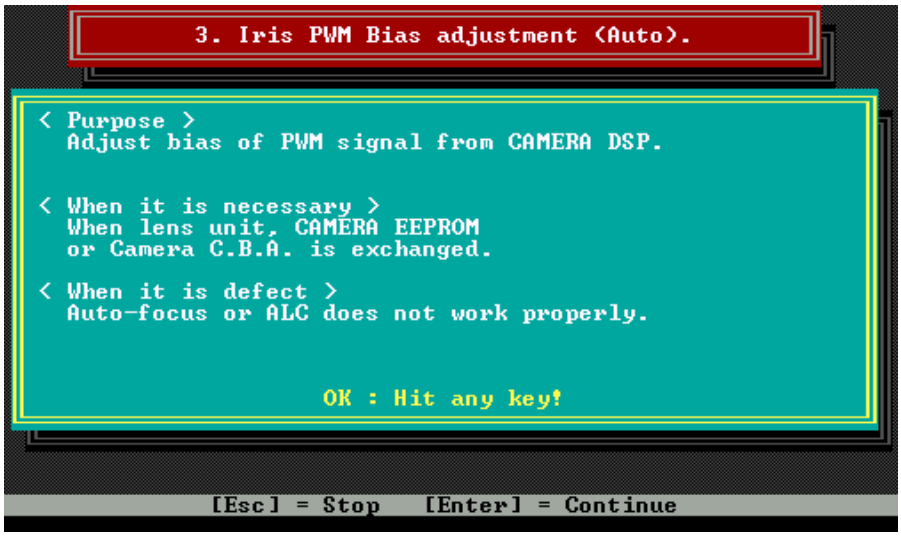


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

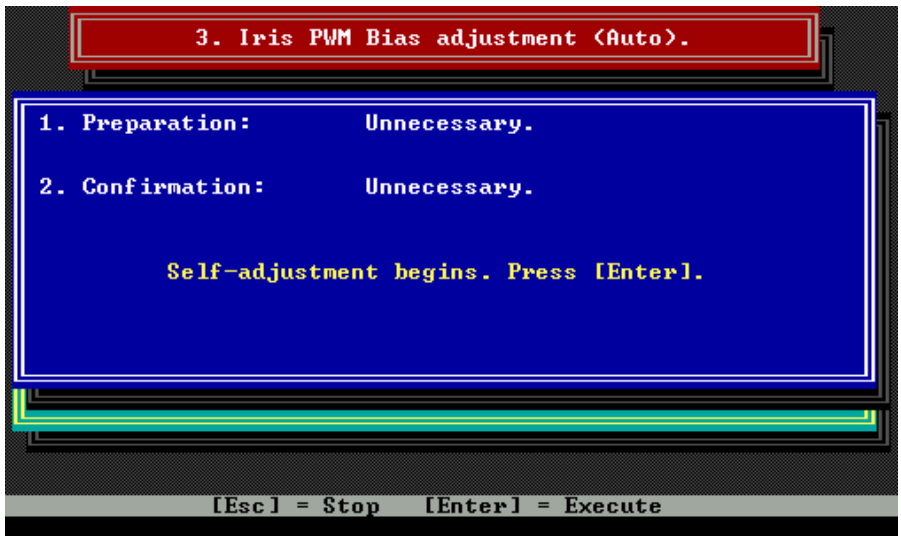
6-2. Iris PWM Bias Adjustment (AUTO)

This adjustment is automatically executed.

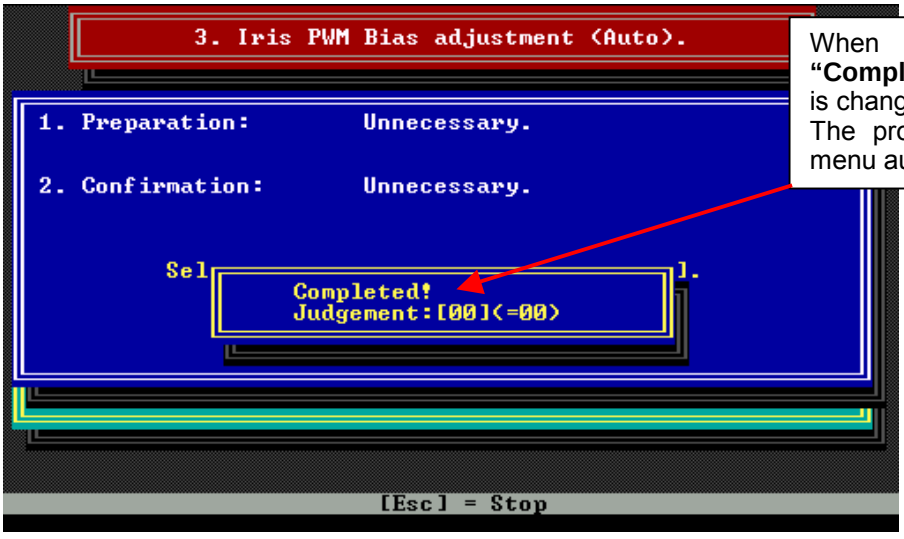
1. Open the **"Camera adjustment menu"**.
2. Select **"3. Iris PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.

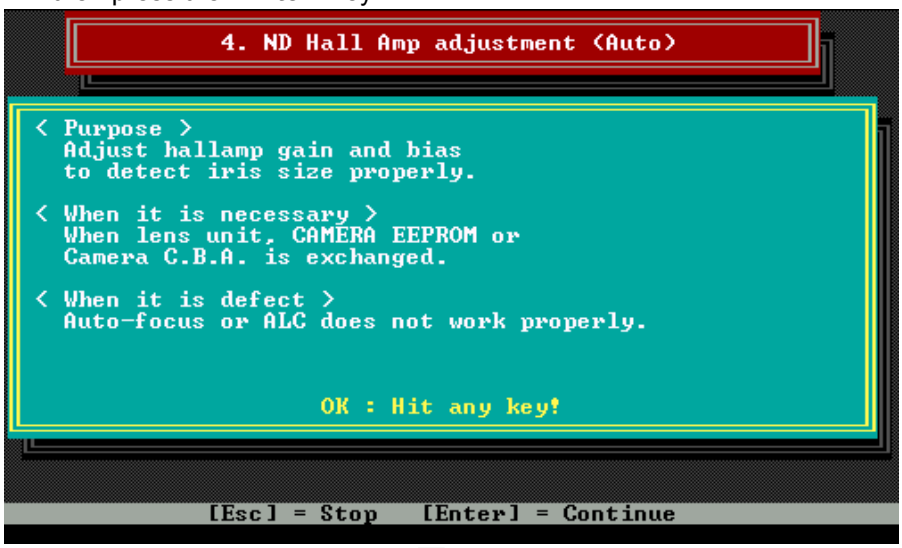


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-3. ND Hall Amp Adjustment (AUTO)

This adjustment is automatically executed.

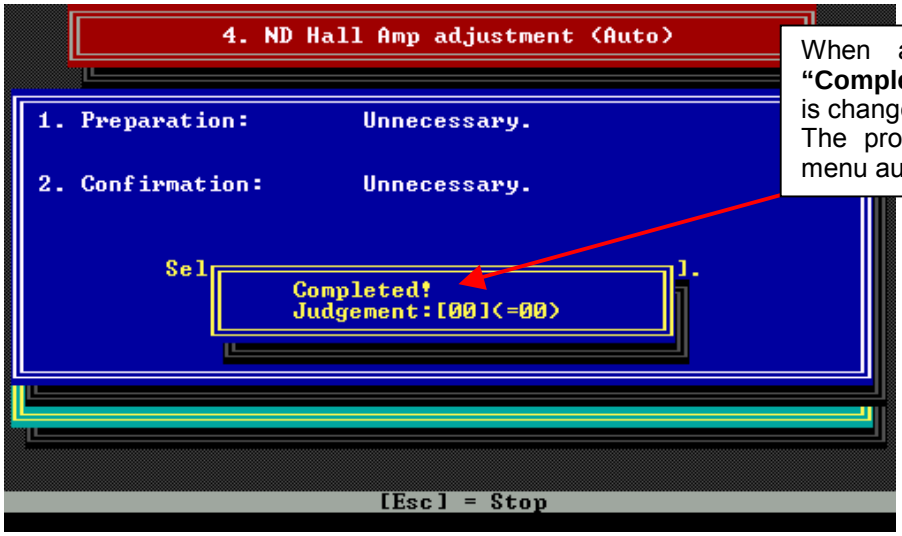
1. Open the **"Camera adjustment menu"**.
2. Select **"4. ND Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.

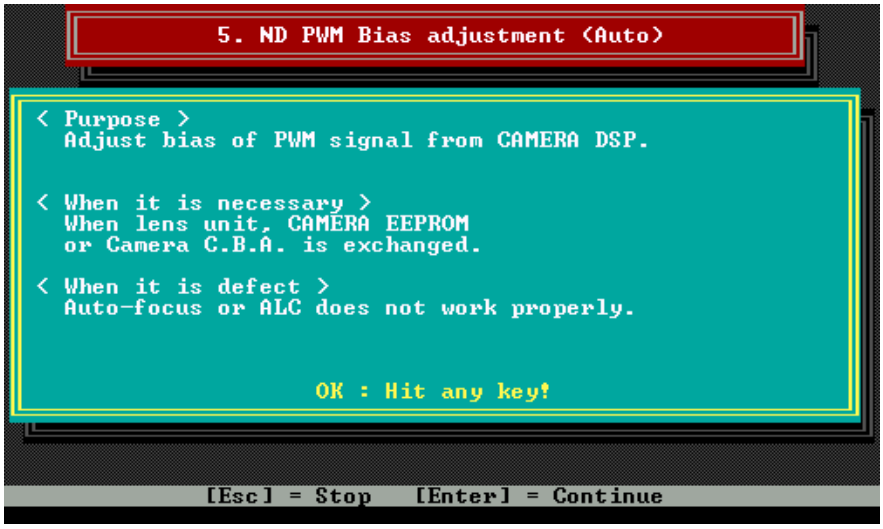


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

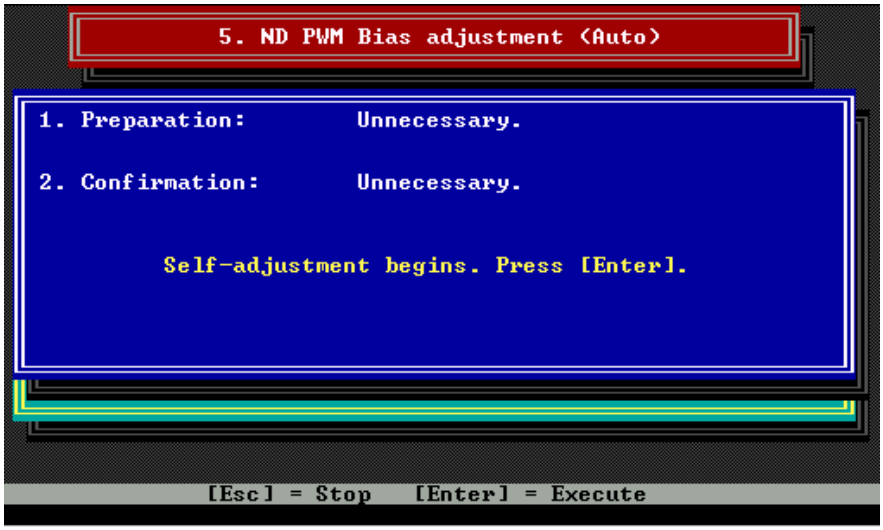
6-4. ND PWM Bias Adjustment (AUTO)

This adjustment is automatically executed.

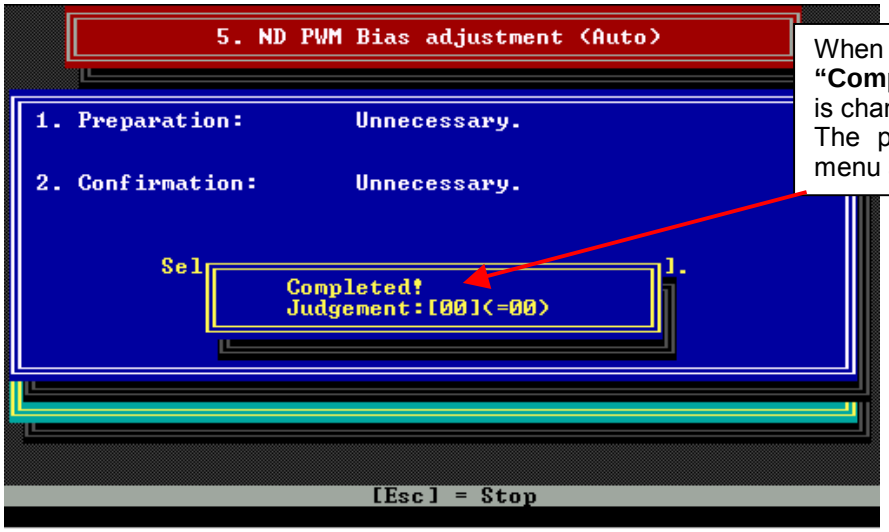
1. Open the **"Camera adjustment menu"**.
2. Select **"5. ND PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.



When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

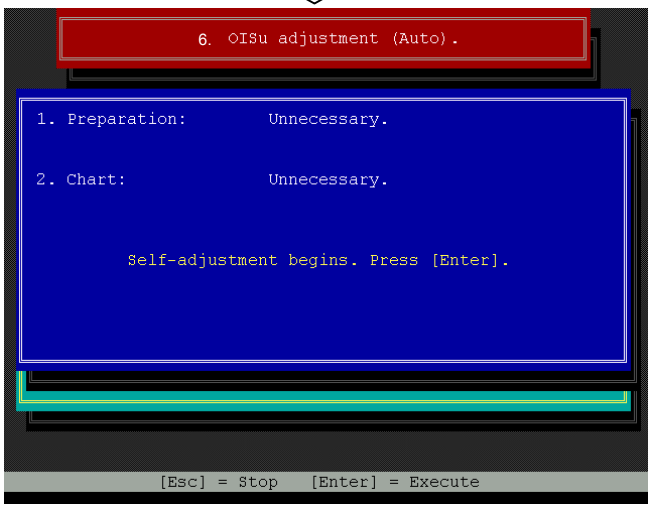
6-5. OISu Adjustment (AUTO)

This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“6. OISu adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.

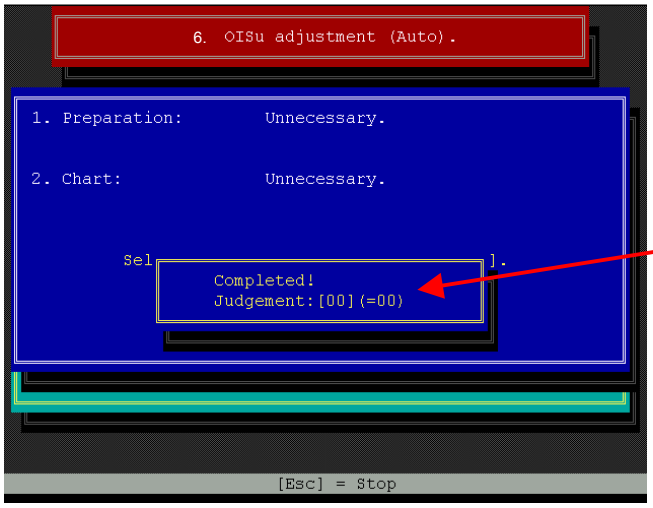


PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

NOTE: You will hear a tapping sound, this is OK.

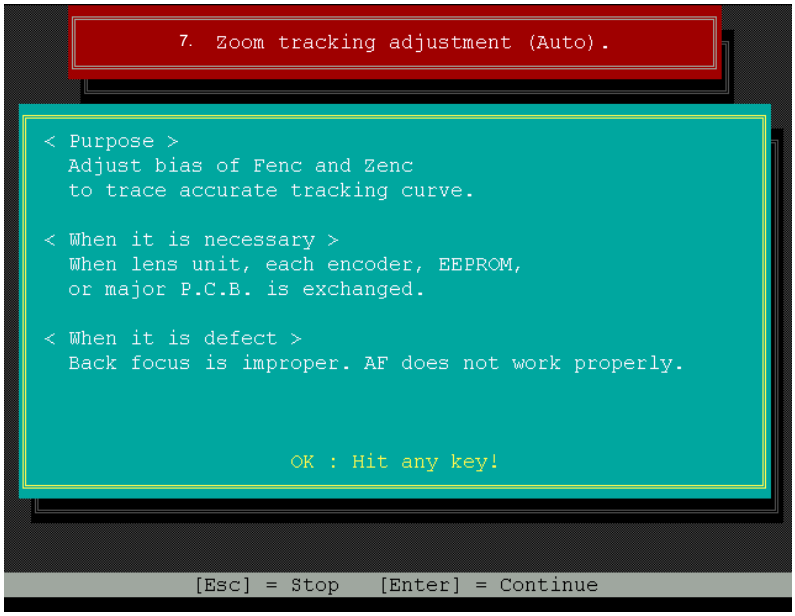


When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

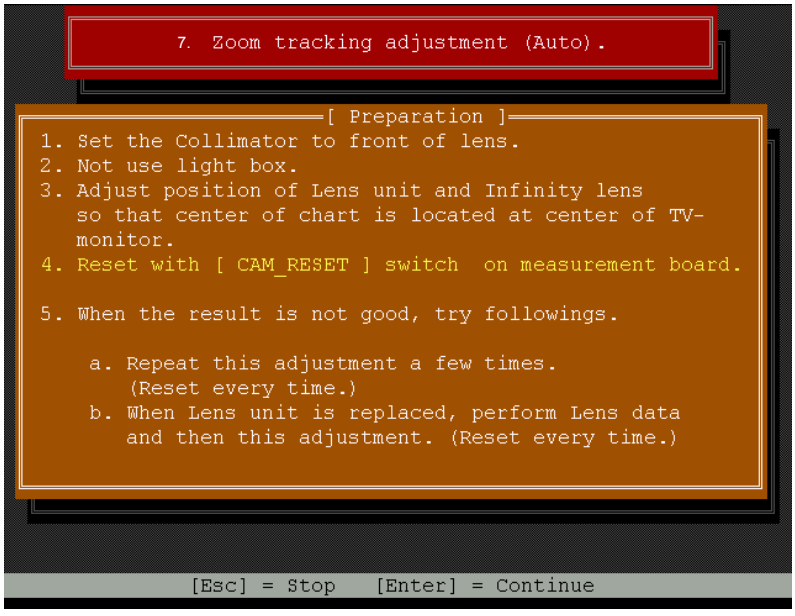
6-6. Zoom Tracking Adjustment (AUTO)

This adjustment is automatically executed.

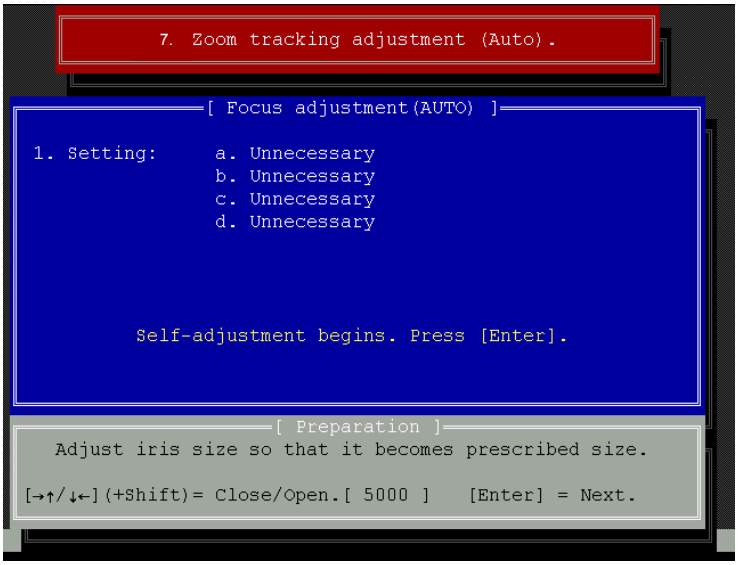
1. Set the 43mm attachment ring (VFK1164TAR43) to front of the Lens.
2. Set the Collimator (VFK1164TCM01) to 43mm attachment ring (VFK1164TAR43) to
3. Open the **"Camera adjustment menu"**.
4. Select **"7. Zoom Tracking adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
5. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



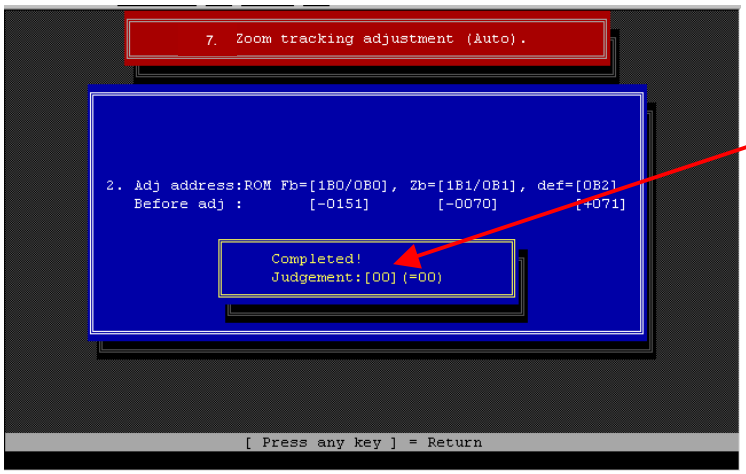
PRESS ENTER KEY.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



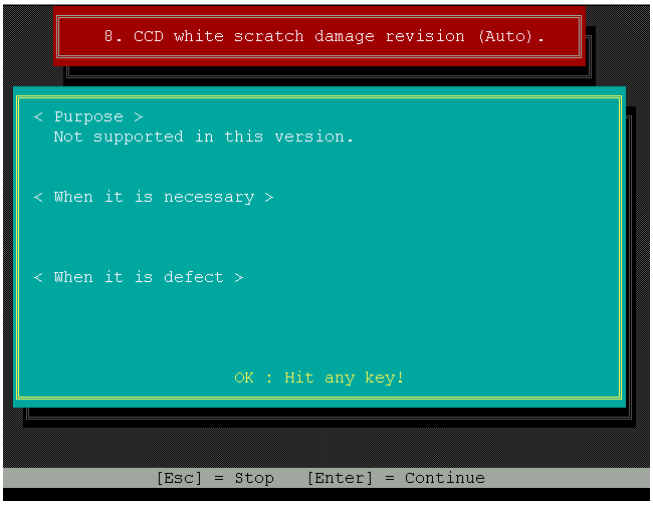
When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6. Connect the VIDEO OUT to Monitor TV.
7. Set the AUTO/MANUAL SELECT switch to MANUAL position.
8. Adjust Focus Ring to set focus of the focus chart in the MF mode, at the maximum of TELE side.
9. Press the Zoom button to change zoom position to maximum WIDE from maximum TELE side and to maximum TELE side from maximum WIDE side, then confirm that the focus chart appears clear.

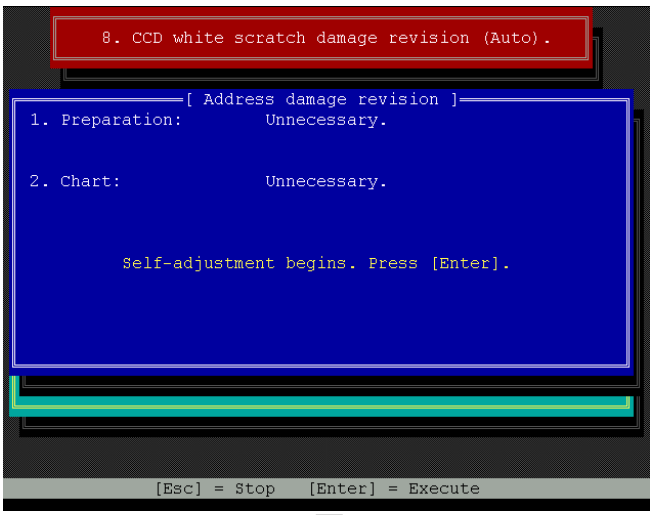
6-7. CCD white scratch damage revision Adjustment (AUTO)

This adjustment is automatically executed.

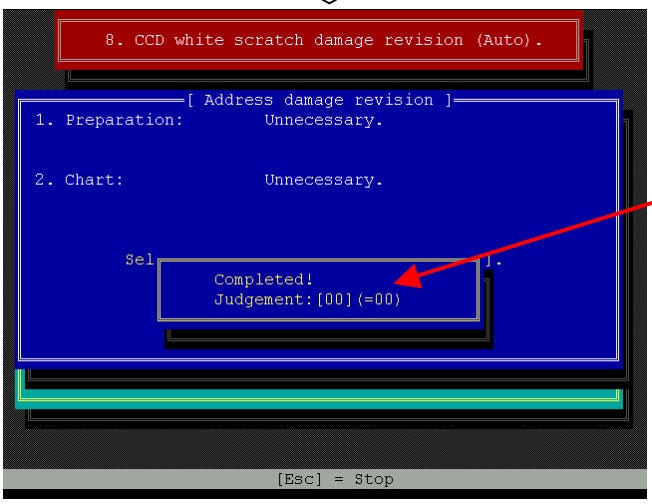
1. Open the **“Camera adjustment menu”**.
2. Select **“8.CCD white scratch damage revision adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



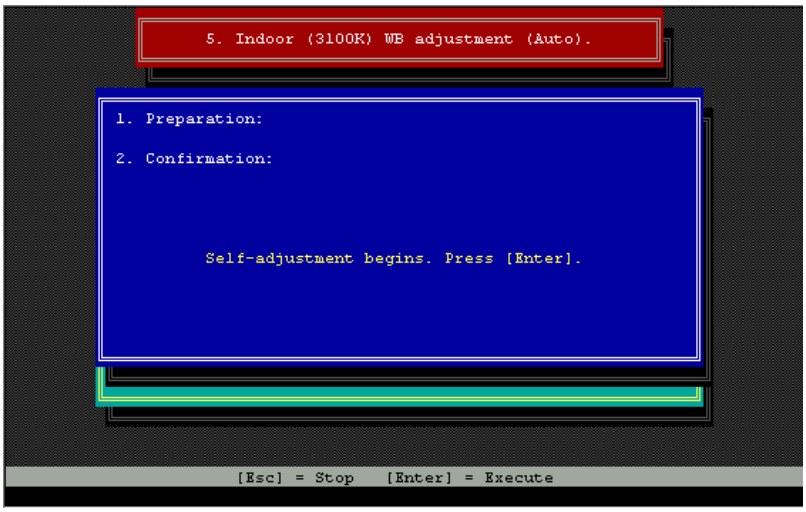
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-8. White Balance Adjustment (AUTO)

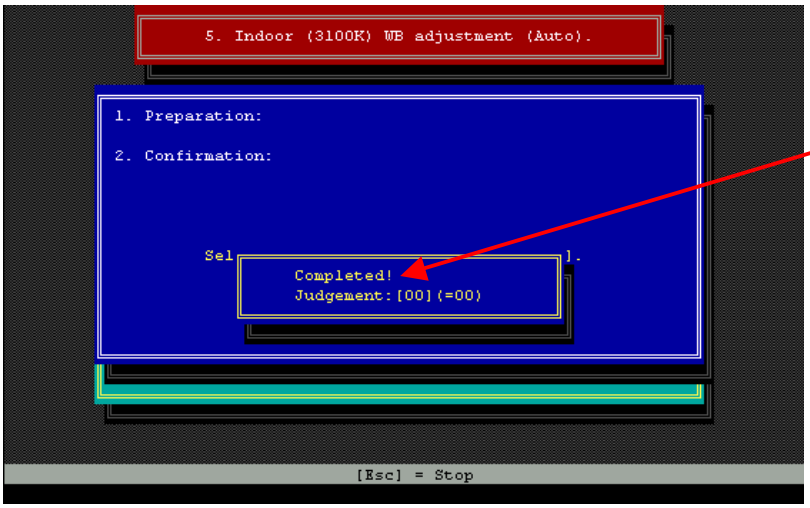
This adjustment is automatically executed.
Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.

6-8-1. Indoor (3100K) White Balance Adjustment (AUTO)

1. Set the AUTO/MANUAL SELECT SW to MANUAL position.
2. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
3. Execute the ABB by press WHITE BAL button.
4. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
5. Open the **"Camera adjustment menu"**.
6. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
7. Select **"5. Indoor (3100K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



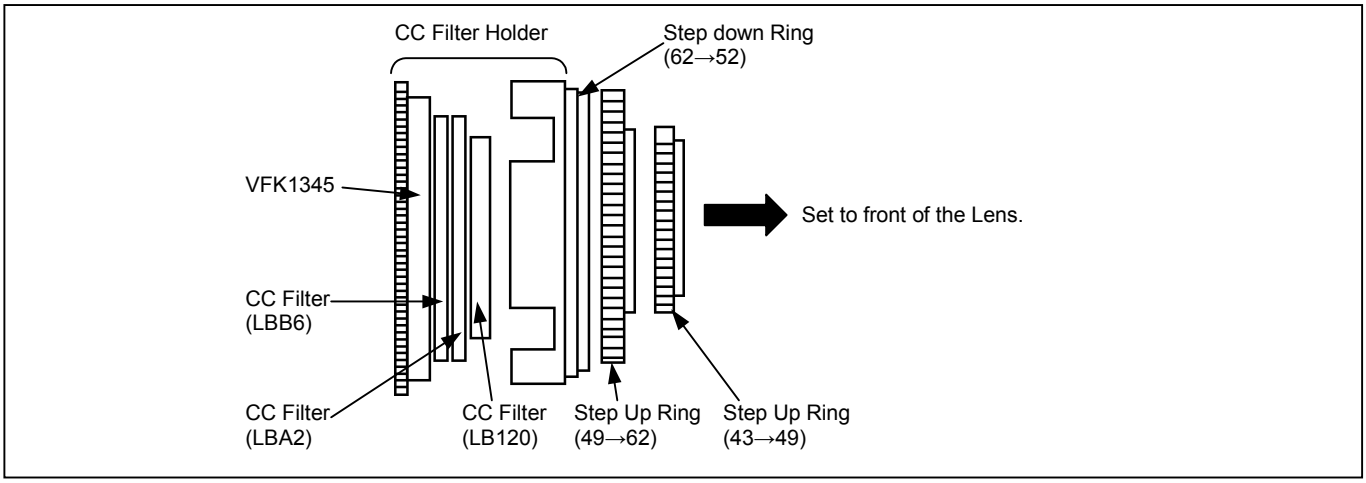
PRESS ENTER KEY, then adjustment is started.



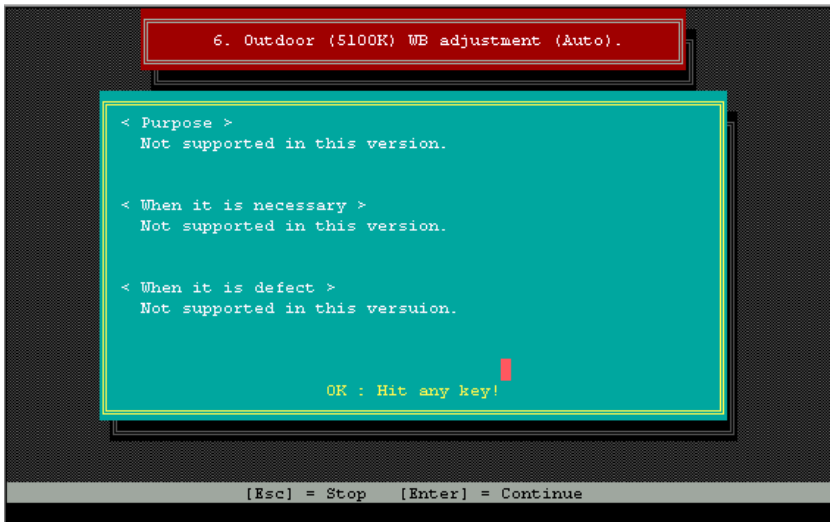
When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6-8-2. Outdoor (5100K) White Balance Adjustment (Auto)

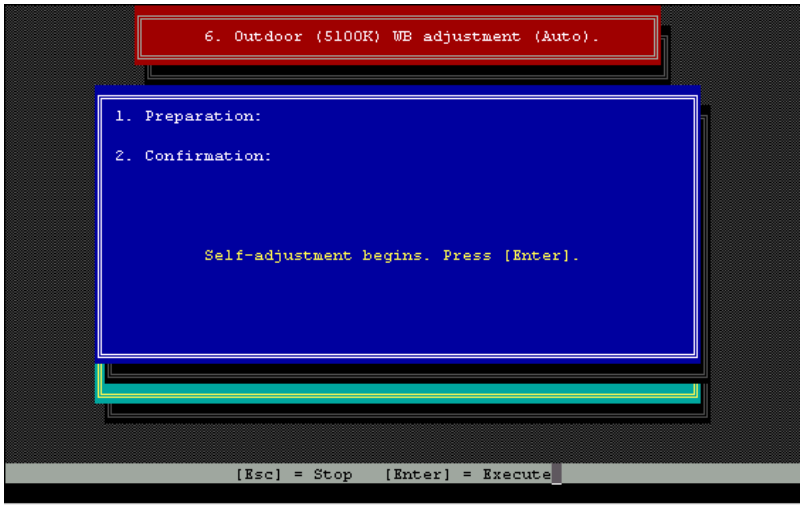
1. Set the Color Conversion filters (LB120 : VFK1347), (LBA2 : VFK1884) and (LBB6 : VFK1888) to CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



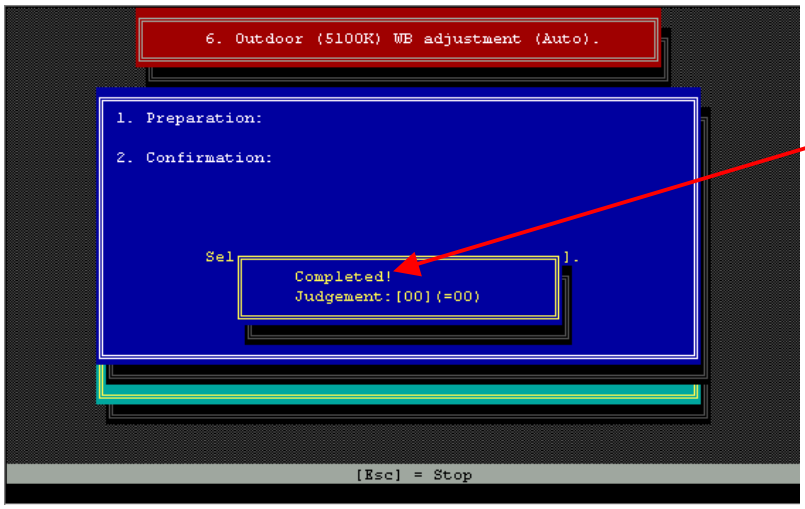
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"6. Outdoor (5100K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-3. Cool white (4500K) White Balance Adjustment (Auto)

< In case of NTSC model >

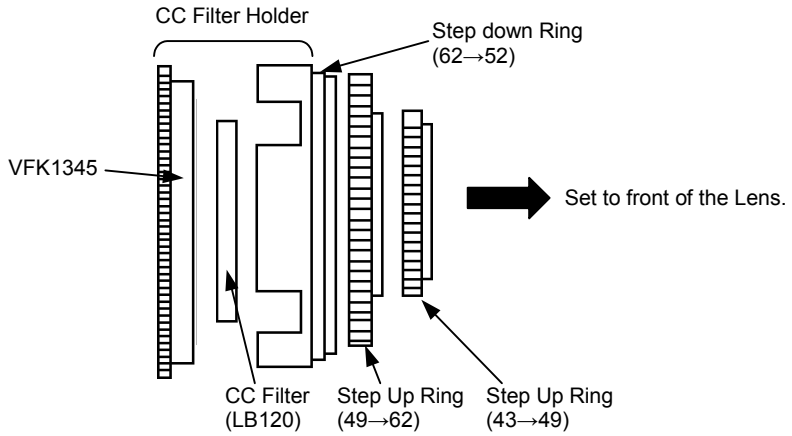
1. Set the Color Conversion filters (LB120 : VFK1347) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB80 : VFK1342) and (CC C20 : VFK1887) to CC Filter Holder (VFK1345).

< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

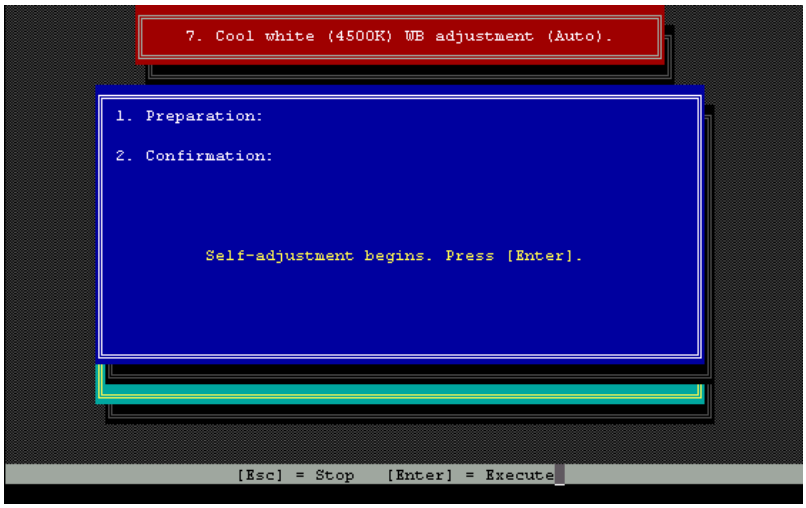


NOTE: Above figure described in case of NTSC.

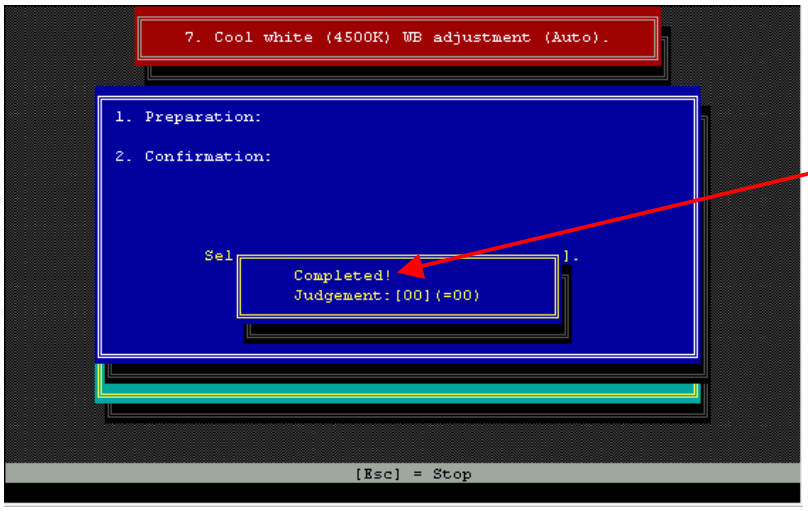
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"7. Cool white (4500K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6-8-4. Warm white (3600K) White Balance Adjustment (Auto)

< In case of NTSC model >

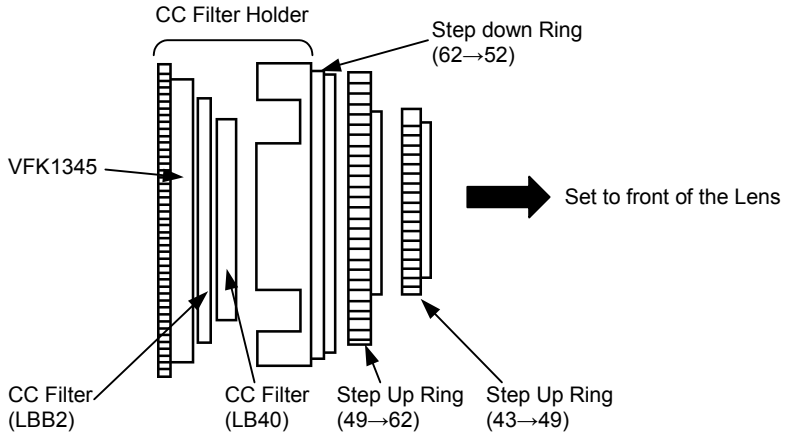
1. Set the Color Conversion filters (LB40 : VFK1341) and (LBB2 : VFK1885) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (CC C10 : VFK1886) to CC Filter Holder (VFK1345).

< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

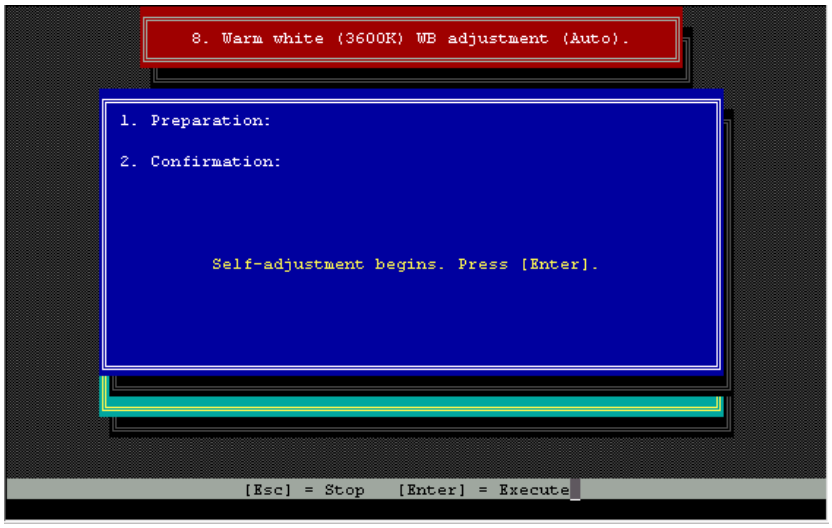


NOTE: Above figure described in case of NTSC.

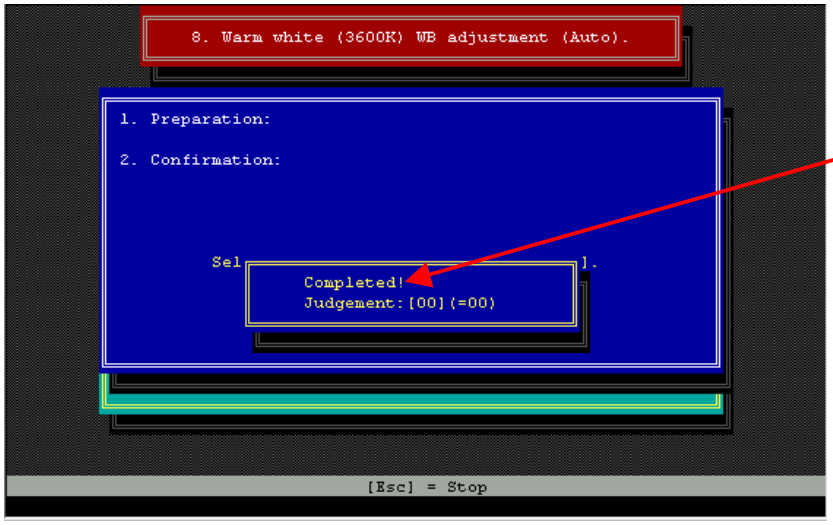
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"8. Wram white (3600K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

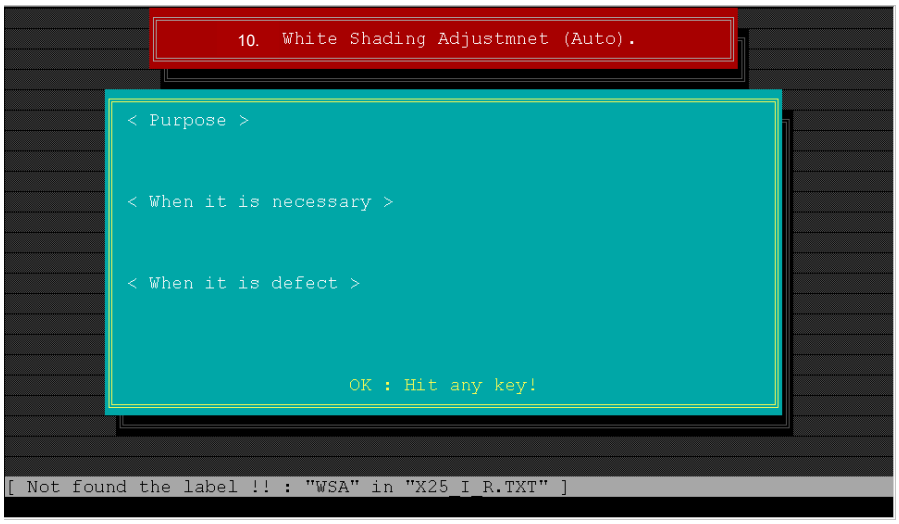


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

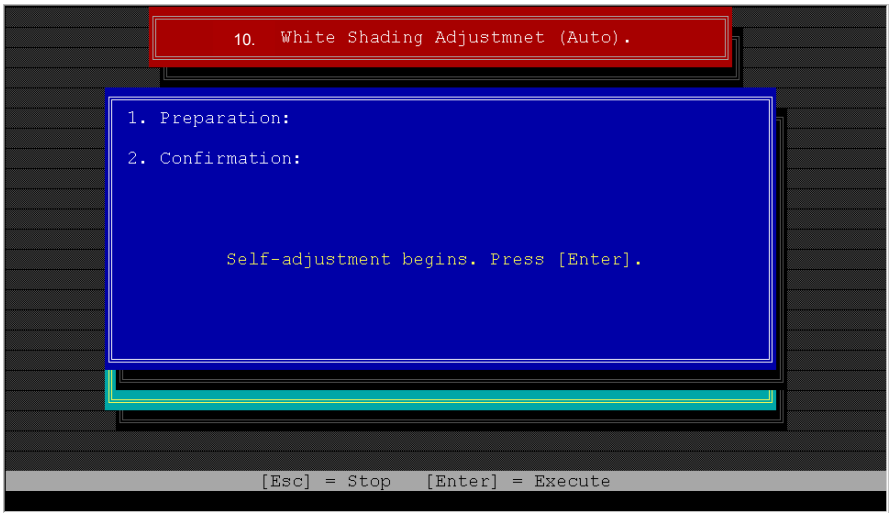
6-9. White Shading Adjustment

This adjustment is automatically executed.

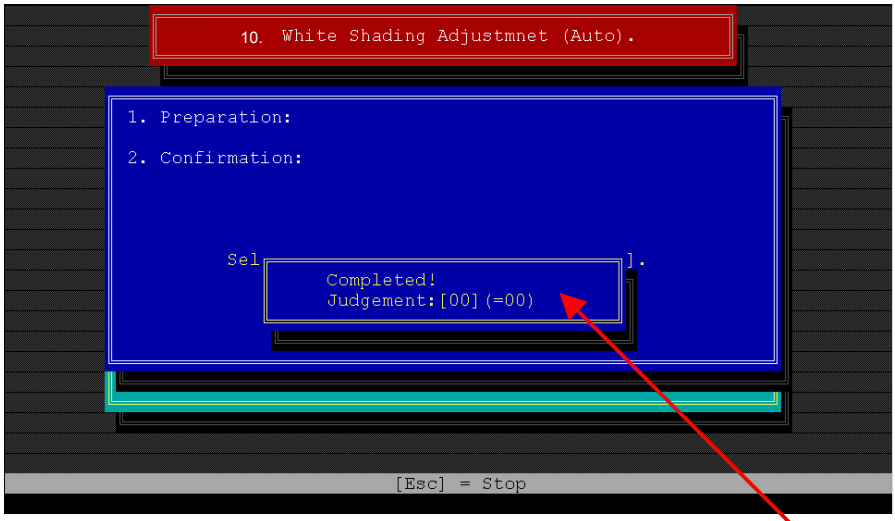
1. Aim the camera recorder at white paper (use clear white paper) under the Halogen lamp condition.
2. Shoot the white paper to fully fill entire screen.
3. Set the AUTO/MANUAL SELECT switch to MANUAL position.
4. Press WHITE BAL button until mark ”◹◿“ displayed as flash condition to execute white balance adjustment.
5. Keep pressing WHITE BAL button “◹◿“ display switching over to the light from the flash.
6. Press ZEBRA button to display the marker on the screen (When press the ZEBRA button, a zebra pattern is displayed and when pushing the ZEBRA button once again, it displays a marker at the center of the screen).
7. Press MULTI-DIAL to display the F-number.
8. Adjust the MULTI-DIAL to the luminance level to become 70 to 80% (luminance level can be confirm by numerical value, which displayed lower left corner of screen).
9. Open the **“Camera adjustment menu”** in EVR software.
10. Select **“10. White Shading Adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
11. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.



When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

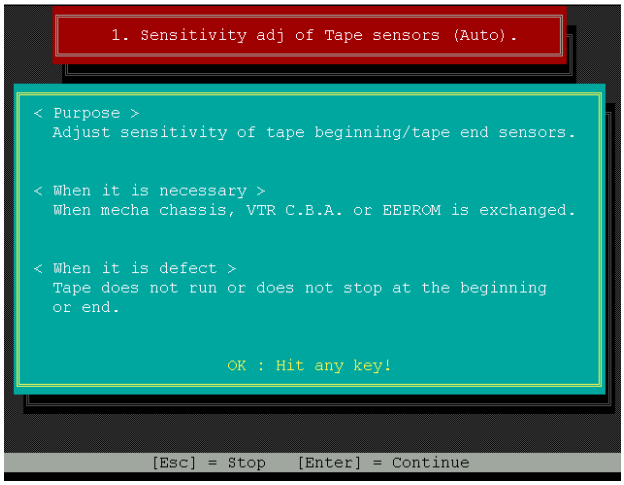
7. VTR ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

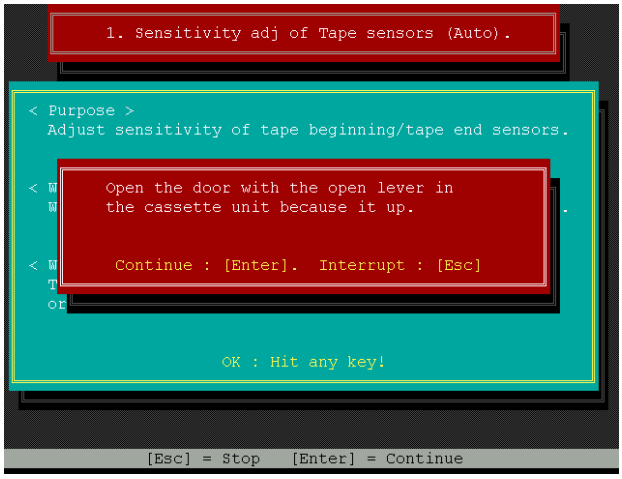
7-1. Sensitivity adj of Tape sensors Adjustment (AUTO)

This adjustment is automatically executed.

1. Open the REC Inhibit Tab (SAVE side) of Tape End/Beg. Sensor Cassette (VFK1217).
2. Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"1. Sensitivity adj of Tape sensors (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.

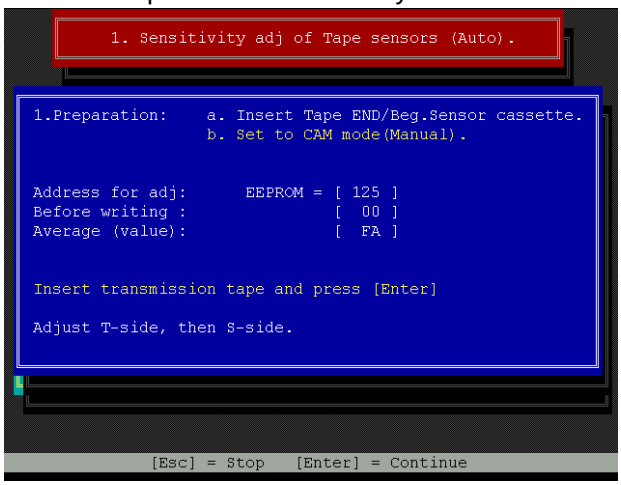


PRESS ENTER KEY.

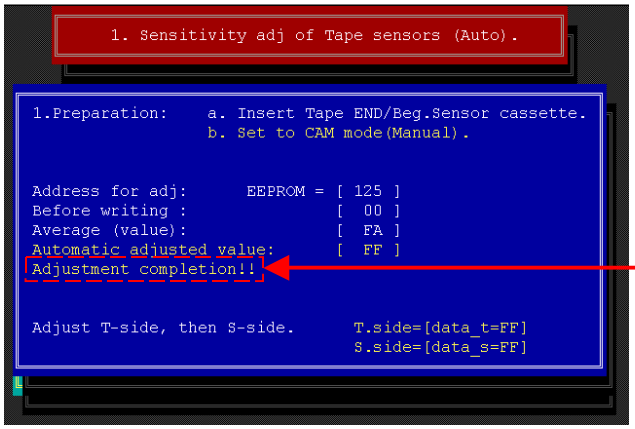


Unnecessary open the door, PRESS ENTER KEY.

5. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



In case of the **"Tape END / Beg. Sensor cassette (VFK1217)"** is already inserted, PRESS ENTER KEY.

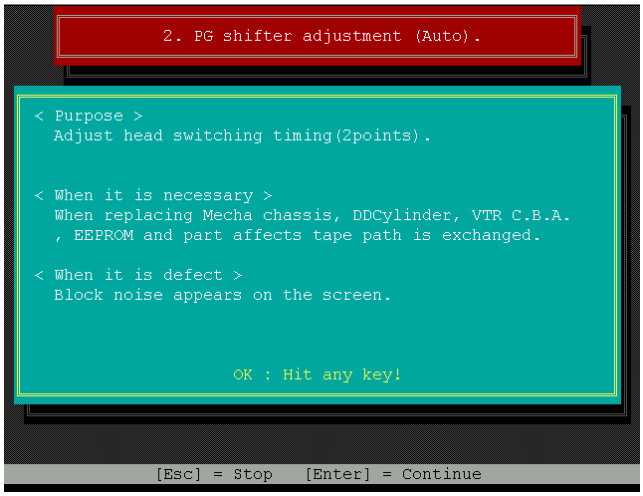


Please confirm this message appears on screen, then adjustment is finished.

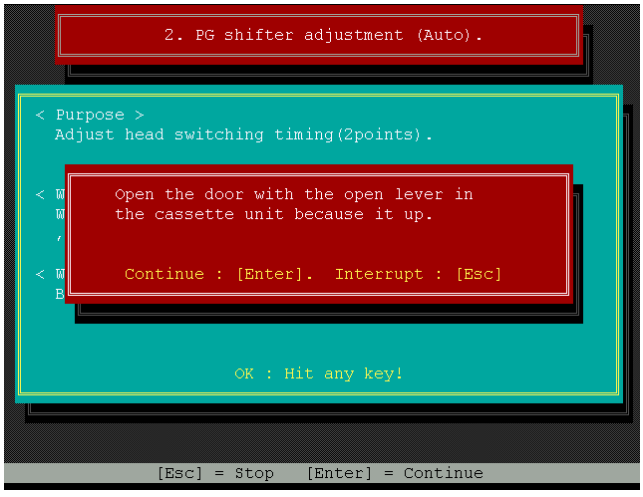
7-2. PG shifter Adjustment (AUTO)

This adjustment is automatically executed.

1. Connect the oscilloscope to **"HID"** and **"SPA"** on the VFK1308P.
2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"2. PG shifter adjustment (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.
5. Set to VCR mode in camera recorder follow the message **"Manually set to VCR mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



It is unnecessary to open the door, PRESS ENTER KEY.

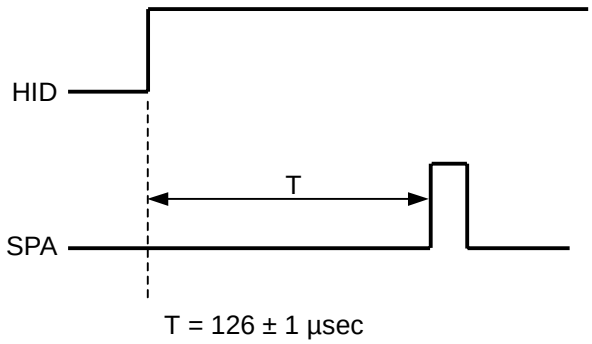


In case the DV color bar alignment tape is already inserted, PRESS ENTER KEY, then adjustment is started.

NOTE:

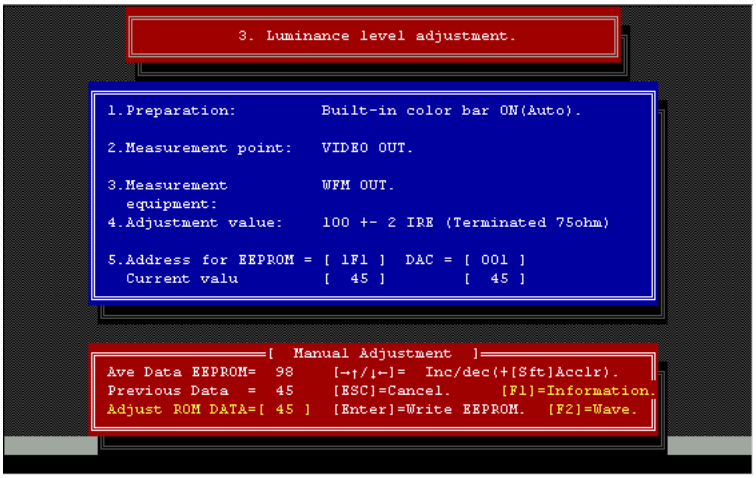
When the screen change to the following screen, camera recorder goes to STBY ON from STBY OFF mode. Press ENTER key after the camera recorder change to STBY ON mode completely.

After finishing adjustment, please confirm that the portion **"T"** is within the specification as shown in figure with an oscilloscope.



7-3. Luminance level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **"Video adjustment menu"**.
3. Select **"3. Luminance level adjustment"** in the Video adjustment menu, and then press the **"Enter"** key.
4. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



NOTE:
This figure describes the NTSC model.

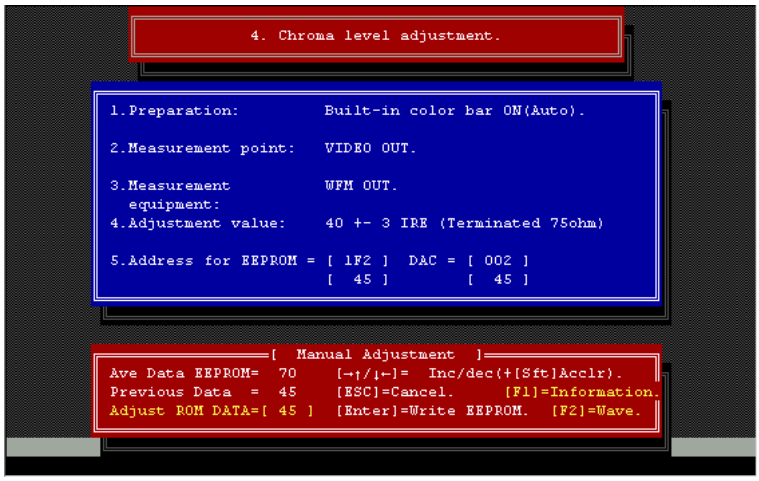
5. Adjust the arrow keys on PC so that the Y level becomes (100±2 IRE: NTSC model / 700±10 mVp-p: PAL model).

Note: 1) Y level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data write to EEPROM.

7-4. Chroma level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **"Video adjustment menu"**.
3. Select **"4. Chroma level adjustment"** in the Video adjustment menu, and then press the **"Enter"** key.
4. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



NOTE:
This figure describes the NTSC model.

5. Adjust the arrow keys on PC so that the C level becomes (40±3: NTSC model / 300±20 mVp-p: PAL model).

Note: 1) C level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data to EEPROM.

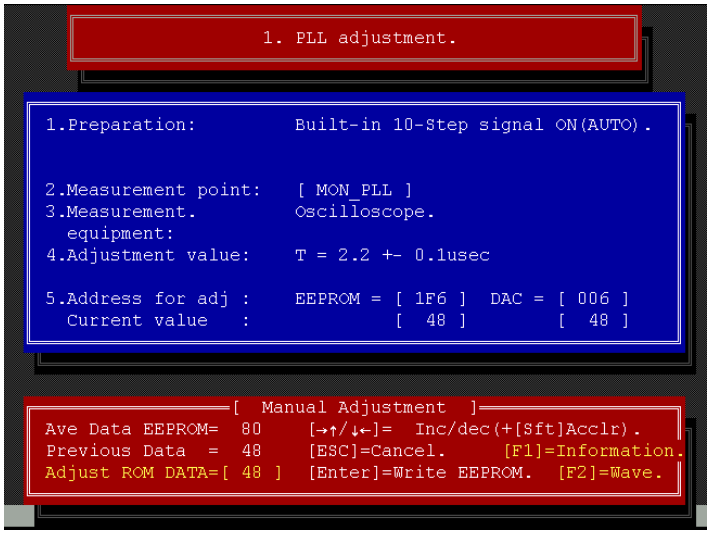
8. LCD ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

8-1. PLL Adjustment

1. Connect the oscilloscope to **"MON_PLL"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"1. PLL adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.

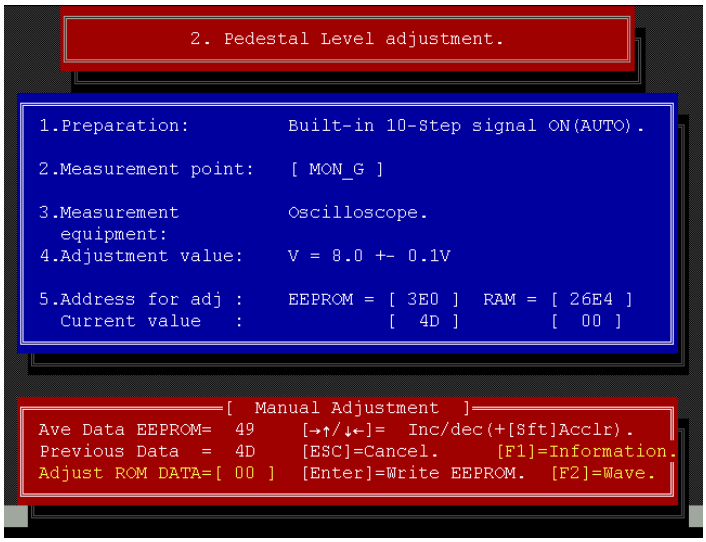


4. Adjust the arrow keys on PC so that the width (T) becomes 2.2±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-2. Pedestal Level Adjustment

1. Connect the oscilloscope to **"MON_G"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"2. Pedestal Level adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.

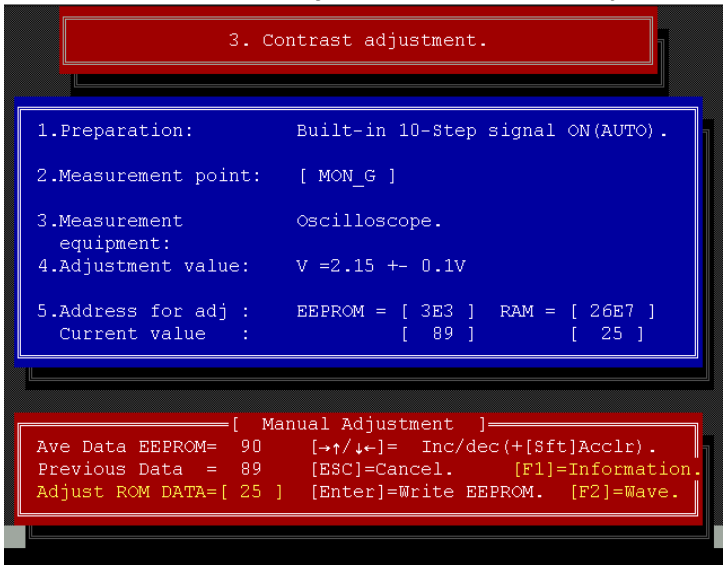


4. Adjust the arrow keys on PC so that the differential amplitude both 0 step-level (portion **"a"** in figure) to becomes 8.0±0.1V as shown in figure on screen.

Note:
1) Level (a) can be by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-3. Contrast Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“3. Contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



4. Adjust the arrow keys on PC so that the differential amplitude between 0 step-level and 7 step-level (portion **“V”** in figure) becomes 2.15±0.1V as shown in figure on screen.

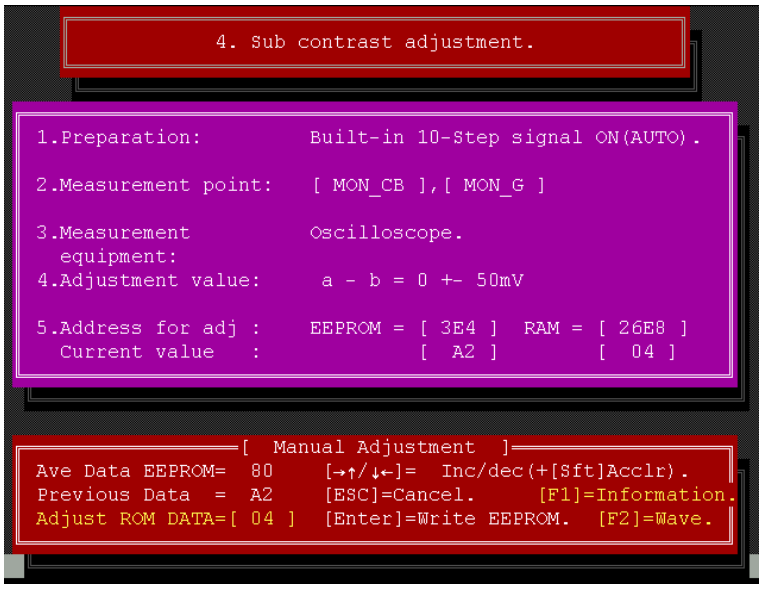
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-4. Sub contrast Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“4. Sub contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.

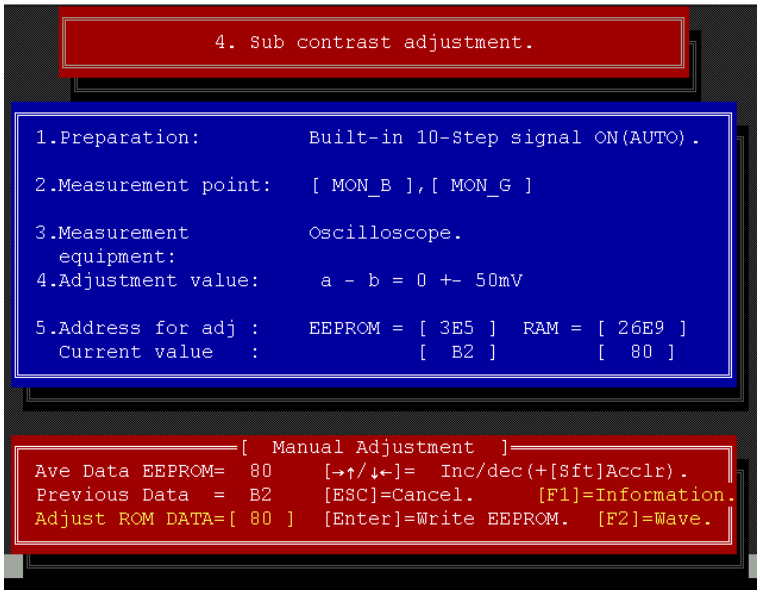


4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) to become 0±50mV as shown in figure on screen.

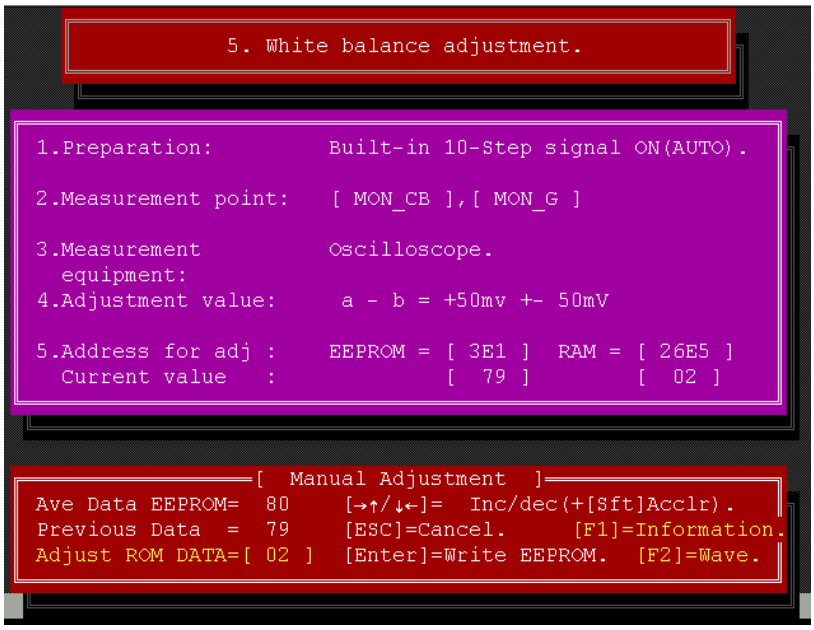
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-5. White balance Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“5. White balance adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.

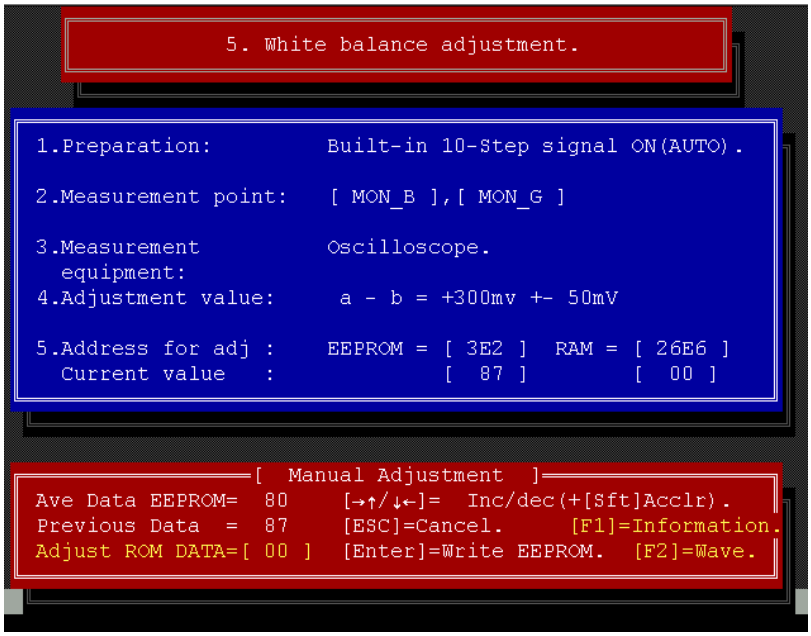


4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes +50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) becomes +300mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.
8. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

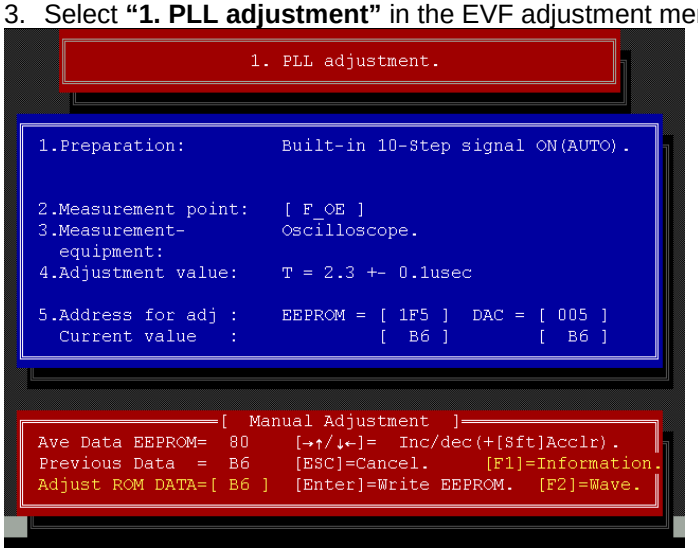
9. EVF ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

9-1. EVF PLL Adjustment

1. Connect the oscilloscope to **"F_OE"** on the VFK1308P.
2. Open the **"EVF adjustment menu"**.
3. Select **"1. PLL adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



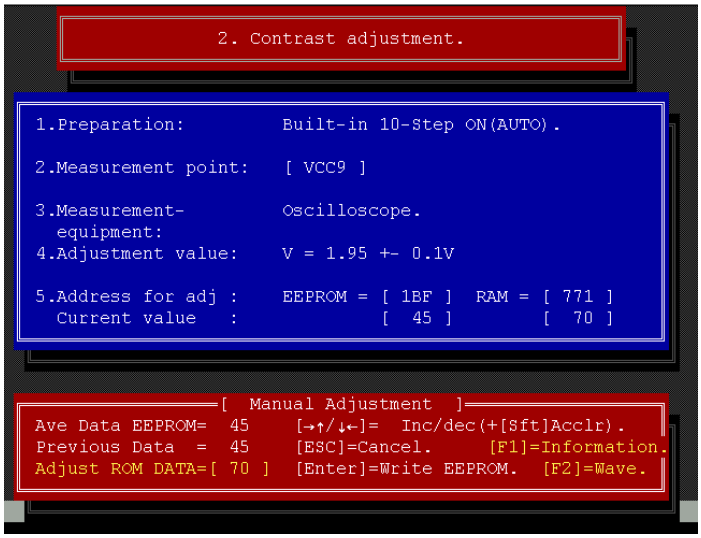
4. Adjust the arrow keys on PC so that the width (T) becomes 2.3±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-2. EVF Contrast Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"2. Contrast adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



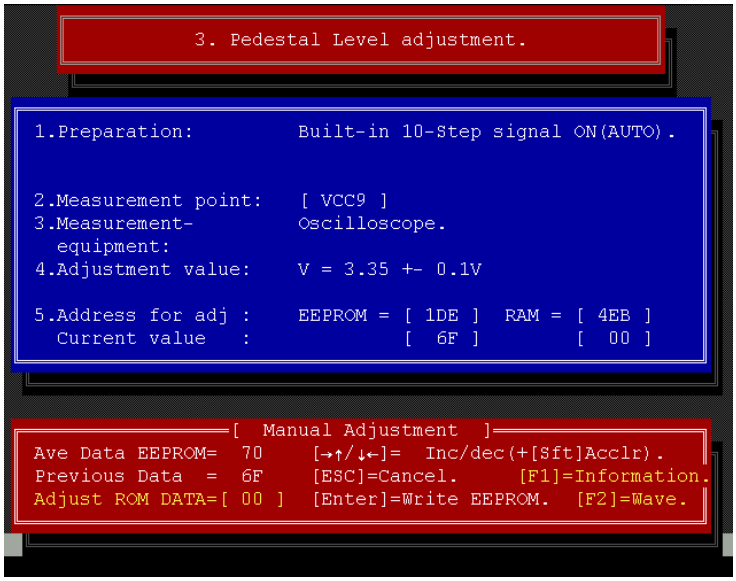
5. Adjust the arrow keys on PC so that the differential amplitude between 1 step-level and 10 step-level (portion **"V"** in figure) becomes 1.95±0.1V as shown in figure on screen.

Note: 1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-3. EVF Pedestal Level Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"3. Pedestal Level adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



5. Adjust the arrow keys on PC so that the differential amplitude both 10 step-level (portion **"V"** in figure) becomes 3.35±0.1V as shown in figure on screen.

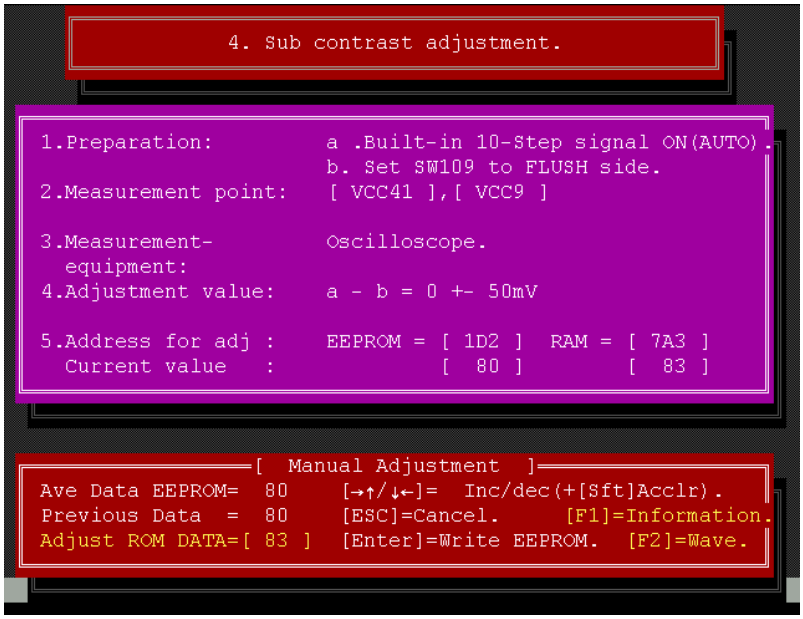
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-4. EVF Sub contrast Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC41"** and **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"4. Sub contrast adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.

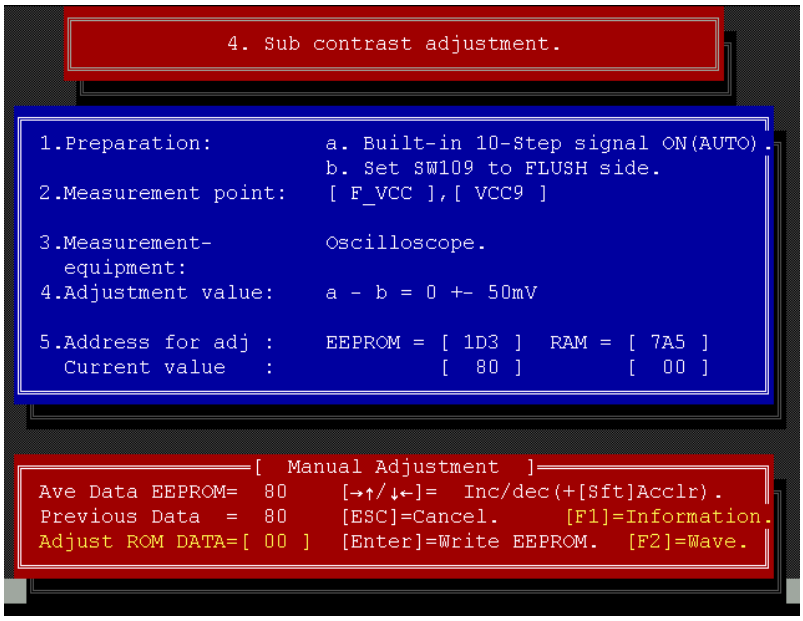


5. Adjust the arrow keys on PC so that the level difference between **"a"** (VCC41) and **"b"** (VCC9) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM, then change the display indicated as below.



7. Connect the oscilloscope to **"F_VCC"** and **"VCC9"** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **"a"** (F_VCC) and **"b"** (VCC9) becomes 0±50mV as shown in figure on screen.

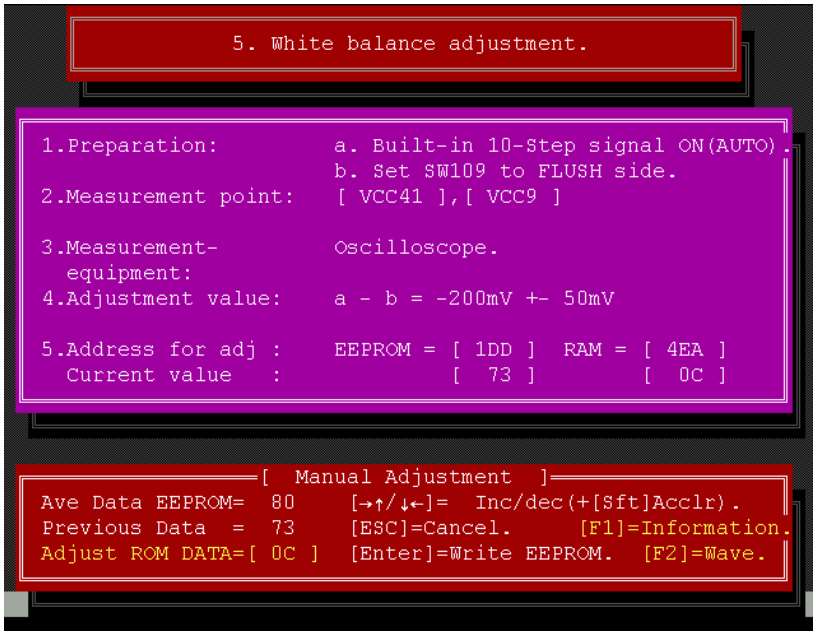
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

9-5. EVF White balance Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC41"** and **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"5. White balance adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.

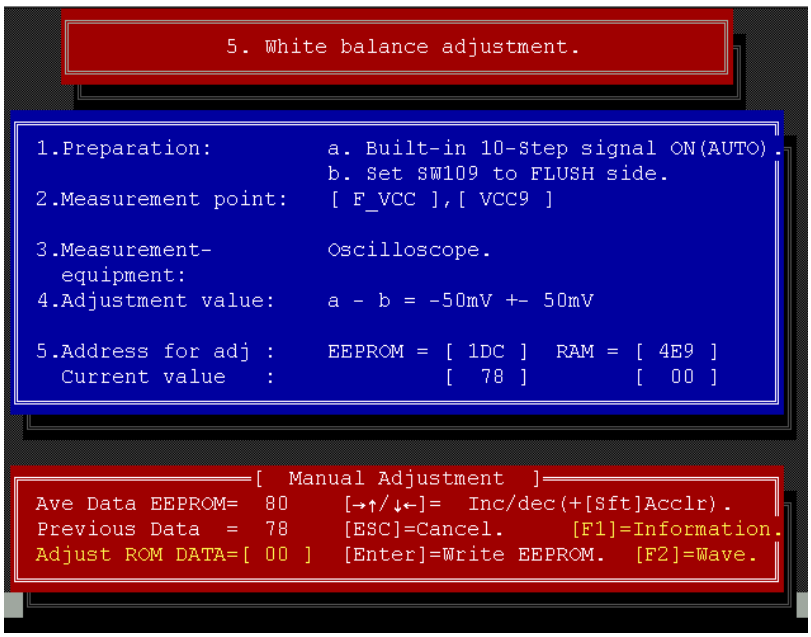


5. Adjust the arrow keys on PC so that the level difference between **"a"** (VCC41) and **"b"** (VCC9) becomes -200mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



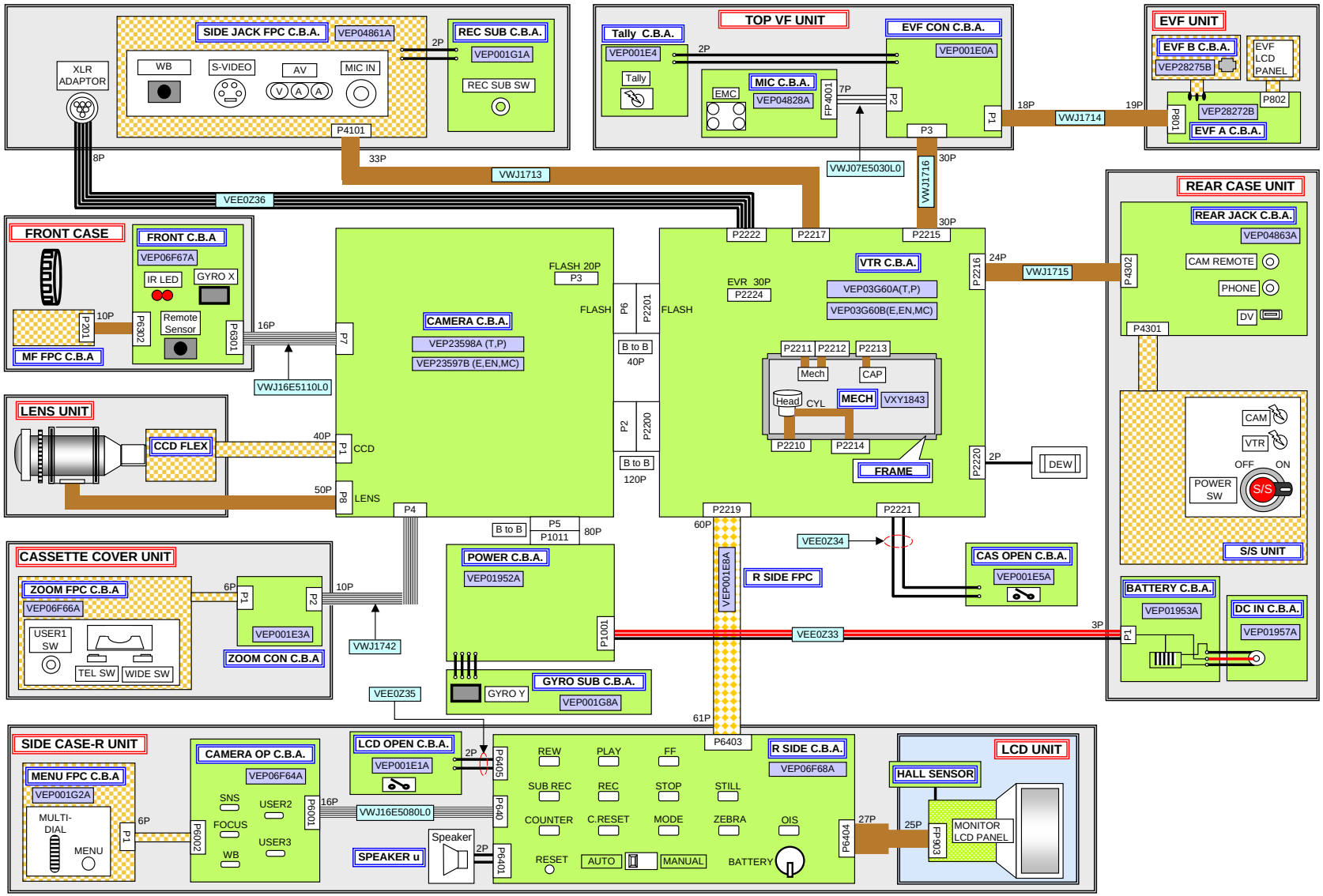
7. Connect the oscilloscope to **"F_VCC"** and **"VCC9"** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **"a"** (F_VCC) and **"b"** (VCC9) to become –50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

INTERCONNECTION



COMPONENT NAME	INTERCONNECTION	01/01
CIRCUIT BOARD NO.		DRAWING NO. (1/1)
		SCM001

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1. SERVICING FIXTURES AND TOOLS

The following servicing tools are required for mechanical and electrical servicing and alignment.

The items marked **"NEW"** in the following list are necessary for the AG-DVC30/32/33.

Please refer to **"Y"** and **"N"** in column of table below, which tools required for servicing the NTSC and PAL model.

Please refer to **"Y"** in column of table below, these tools were also use for servicing the AG-DVX100/A and AG-DVC180/A.

1-1. Summary Table of Servicing Fixtures and Tools

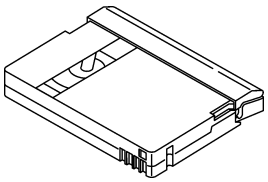
No	Parts No.	NAME	NTSC Model	PAL Model	AG-DVX100/A AG-DVC180/A	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	Y	
2	VFM3110EDS	DV Alignment Tape (Color bar)	N	Y	Y	
3	VFM3000EDS	DV Alignment Tape (Linearity)	Y	Y	Y	
4	VFK1217	Tape End/Beg Detect Cassette	Y	Y	Y	
5	*VFK1908	EVR Adjustment Software	Y	N	N	**NEW** Download from the WEB site.
6	*VFK1909	EVR Adjustment Software	N	Y	N	**NEW** Download from the WEB site.
7	*VFK1481K	LISTA Software	Y	Y	Y	Download from the WEB site.
8	VFK1308P	Measuring Board	Y	Y	Y	
9	VFK1309A	EVR Connector Board	Y	Y	Y	**NOTE 1**
10	VFK1763	Connector Adapter	Y	Y	N	60-30pin
11	VJA0941	DC Cable	Y	Y	Y	2 pieces Required
12	VFK1317	30pin Flat Cable	Y	Y	Y	2 pieces Required
13	VFK1164TAR43	43mm Attachment Ring	Y	Y	Y	
14	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Y	
15	VFK1345	CC Filter Holder	Y	Y	Y	
16	VFK1346	Step Down Ring	Y	Y	Y	
17	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	Y	
18	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	Y	
19	VFK1341	CC Filter (LB40)	Y	N	Y	
20	VFK1342	CC Filter (LB80)	N	Y	Y	
21	VFK1347	CC Filter (LB120)	Y	Y	Y	
22	VFK1884	CC Filter (LBA2)	Y	Y	Y	
23	VFK1888	CC Filter (LBB6)	Y	Y	Y	
24	VFK1885	CC Filter (LBB2)	Y	N	Y	
25	VFK1886	CC Filter (CC C10)	N	Y	Y	
26	VFK1887	CC Filter (CC C20)	N	Y	Y	
27	VFK1409A	Measuring Board	Y	Y	Y	**NOTE 2**
28	VFK1899	Post Driver	Y	Y	N	**NEW, NOTE 3**
29	VFK1810	LISTA Measuring Board	Y	Y	Y	**NOTE 2**
30	VFK1186	LISTA Cable	Y	Y	Y	
31	VFK1300	A/D Converter Board	Y	Y	Y	ISA PC Board.

NOTE:

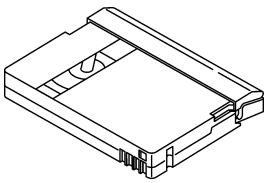
1. If you already have VFK1309, it can be modified to VFK1309A. (Refer to item "1-1. Modification procedure of VFK1309" on page ELE-1 in section 4.)
2. If you already have VFK1409S, it can be used for LISTA adjustment with VFK1810 instead of VFK1409A. (Refer to item "1-5. Connection of LISTA Adjustment system" on page MECH-3 in section 3.)
3. This Post Driver use for servicing the "A" mechanism of consumer model.

1 **VFM3010EDS**

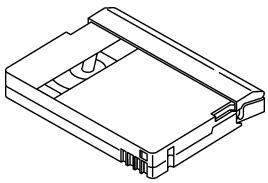
2 **VFM3110EDS**
DV Alignment Tape
(Color bar)



3 **VFM3000EDS**
DV Alignment Tape
(Linearity)



4 **VFK1217**
Tape End / Beg. Detect
Cassette



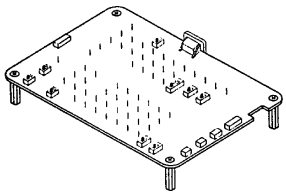
5 **VFK1908**

6 **VFK1909**
EVR Adjustment Software

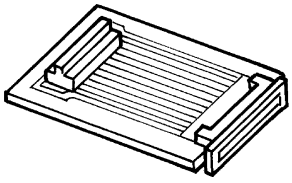
7 **VFK1481K**
LISTA Software

DOWN LOAD

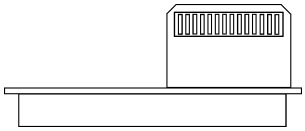
8 **VFK1308P**
Measuring Board



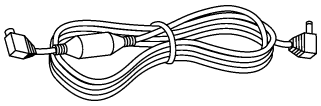
9 **VFK1309A**
EVR Connector Board



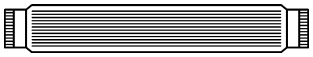
10 **VFK1763**
Connector Adapter



11 **VJA0941**
DC Cable

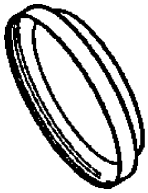


12 **VFK1317**
30pin Flat Cable

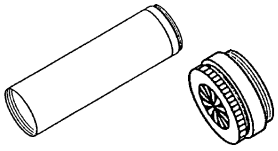


(In case of using VFK1308P, required 2pcs. of this cable)

13 **VFK1164TAR43**
43 mm Attachment Ring



14 **VFK1164TCM01**
Collimator Set
(Infinity Lens)



15 **VFK1345**
CC Filter Holder

16 **VFK1346**
Step Down Ring



VFK1345 VFK1346

17 **VFK1659**
Step-up Ring (43mm 49mm)

18 **VFK1660**
Step-up Ring (49mm 62mm)



VFK1659

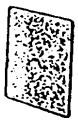
VFK1660

19 **VFK1341** (LB40)

20 **VFK1342** (LB80)

21 **VFK1347** (LB120)

CC Filter



22 **VFK1884** (LBA2)

23 **VFK1888** (LBB6)

24 **VFK1885** (LBB2)

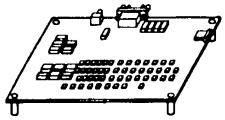
25 **VFK1886** (CC C10)

26 **VFK1887** (CC C20)

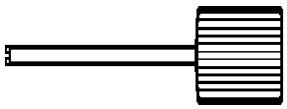
CC Filter



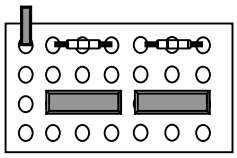
27 **VFK1409A**
Measuring Board



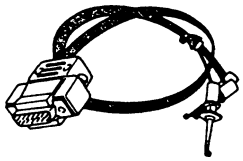
28 **VFK1899**
Post Driver



29 **VFK1810**
LISTA Measuring Board



30 **VFK1186**
LISTA Cable



31 **VFK1300**
A/D Converter Board



To determine which servicing fixtures and tools are required for each adjustment, refer to the following table.

No.	Parts No.	NAME	ADJUSTMENT ITEM
1	VFM3010EDS	DV Alignment Tape (Color bar)	7-2. PG shifter Adjustment (SEC.4)
2	VFM3110EDS	DV Alignment Tape (Color bar)	
3	VFM3000EDS	DV Alignment Tape (Linearity)	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
4	VFK1217	Tape End/Beg Detect Cassette	7-1. Sensitivity adj. of Tape sensors Adjustment (SEC.4)
5	VFK1908	EVR Adjustment Software	4. EEPROM (SEC.4)
6	VFK1909		5. ZOOM SW Center Value Adjustment (SEC.4)
			6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
7	VFK1481K	LISTA Software	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
8	VFK1308P	Measuring Board	5-2. Adjust Menu (SEC.1)
9	VFK1309A	EVR Connector Board	1-8. LISTA Sensitivity Detection (SEC.3)
10	VFK1763	Connection Adapter	1-9. LISTA Linearity Adjustment (SEC.3)
11	VJA0941	DC Cable	1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
12	VFK1317	30pin Flat Cable	4. EEPROM (SEC.4)
			5. ZOOM SW Center Value Adjustment (SEC.4)
			6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
13	VFK1164TAR43	43mm Attachment Ring	6-6. Zoom Tracking Adjustment (SEC.4)
14	VFK1164TCM01	Collimator Set (Infinity Lens)	
15	VFK1345	CC Filter Holder	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
16	VFK1346	Step Down Ring	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
17	VFK1659	Step-Up Ring (43mm-49mm)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
18	VFK1660	Step-Up Ring (49mm-62mm)	
19	VFK1341	CC Filter (LB40)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
20	VFK1342	CC Filter (LB80)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
21	VFK1347	CC Filter (LB120)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
			6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
22	VFK1884	CC Filter (LBA2)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
23	VFK1888	CC Filter (LBB6)	
24	VFK1885	CC Filter (LBB2)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
25	VFK1886	CC Filter (CC C10)	
26	VFK1887	CC Filter (CC C20)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
27	VFK1409A	Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
28	VFK1899	Post Driver	1-9. LISTA Linearity Adjustment (SEC.3)
			1-10. Tape Path Confirmation (SEC.3)
			1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
29	VFK1810	LISTA Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3)
30	VFK1186	LISTA Cable	1-9. LISTA Linearity Adjustment (SEC.3)
31	VFK1300	A/D Converter Board	

2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms have parts which will wear, and their wear and deterioration cause troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

The maintenance schedule requires replacement of mechanism unit, which contains a cylinder unit and so on.

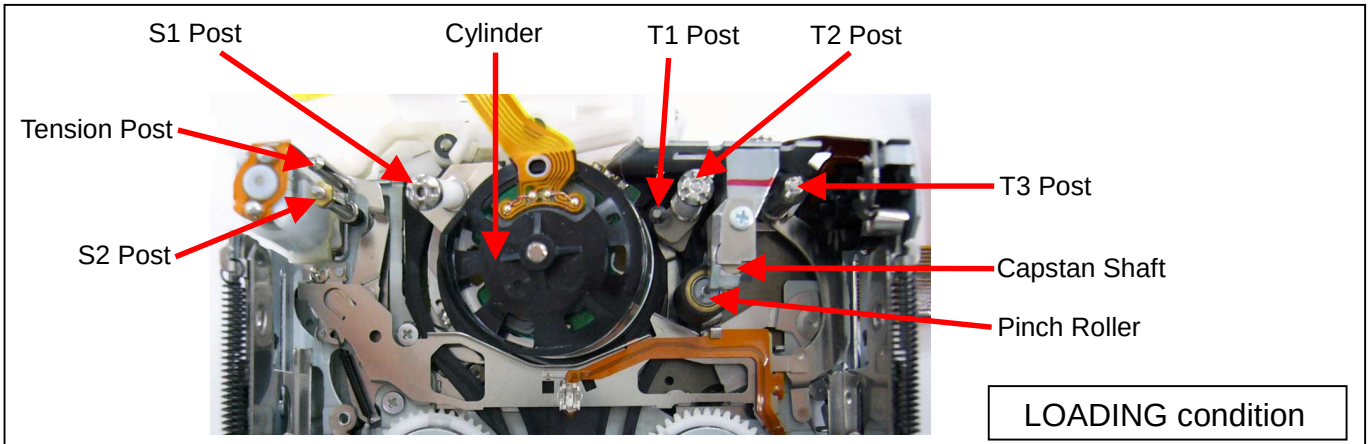
2-1. Maintenance Schedule

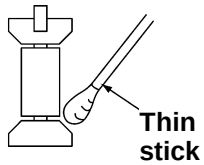
No.	Part Name	Part No.	Cleaning	Replacement	Remark
---	Tape Transport Part	------	100 hours	------	*1
1	Mechanism Chassis Unit	VXY1843	------	Every 2000 hours	*2

Note:
Hours of use are based on the head rotation hours. (Head rotation hours can be confirm on item DRUM RUN in DIAGNOSTIC menu.)
Hours of use are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.
Hours of use are listed as the reference of maintenance. They do not mean guarantee hours.
HOUR METER can be reset on ADJUST menu (Refer to item “5-2-4. Hour Meter Reset and LOG clear” in this section.)
*1. Tape Transport part is cleaned by cleaning liquid.
*2. Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

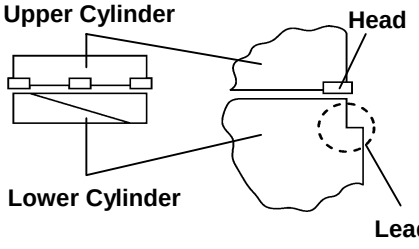
2-2. Cleaning of Tape Transport Part

Please clean the below indicated tape transport parts with cleaning liquid when needed.
(Tension Post, S1 Post, Cylinder & Heads, T1 Post, T2 Post, T3 Post, Capstan Shaft and Pinch Roller)





When cleaning the post, wrap a cloth on a pick. Wipe each post with a cloth dipped in cleaning liquid. And wipe it again with dry cloth.



Do not forget cleaning the upper Cylinder, Head, tape transport part of Lower Cylinder and Lead, when cleaning the Cylinder.

3. MANUAL TAPE EJECT (EMERGENCY EJECT)

When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

NOTE: By below indicated method, The unit will not take up tape slack. Be careful when removing the tape from Cassette Holder.

1. Remove the Mech. Cover (R).



2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.



UNLOADING.....A: +4.5V B: GND
LOADING.....A: GND B: +4.5V

3. Stop supplying the power when the tape is ejected and remove the tape from Cassette Holder.

<How to rolls up tape>

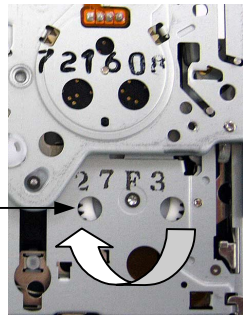
Be sure to take up the tape slack so that tape does not become damaged.

1. Remove the Mechanism Unit.
2. Supply 4.5 Volts to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If power is supplied too long, then the Cassette tape will be ejected prematurely.

4. Turn the Gear of Supply Reel as shown in figure, and this will take up the slack in the tape.
5. Supply 4.5 Volts again to eject the tape using the motor and remove the tape from Cassette Holder.

Turn this Gear with the tip of a tweezers.



(Bottom side of Mechanism)

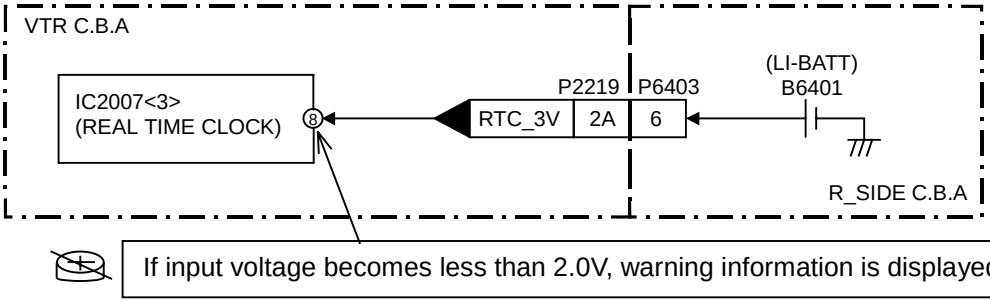
4. LITHIUM BATTERY

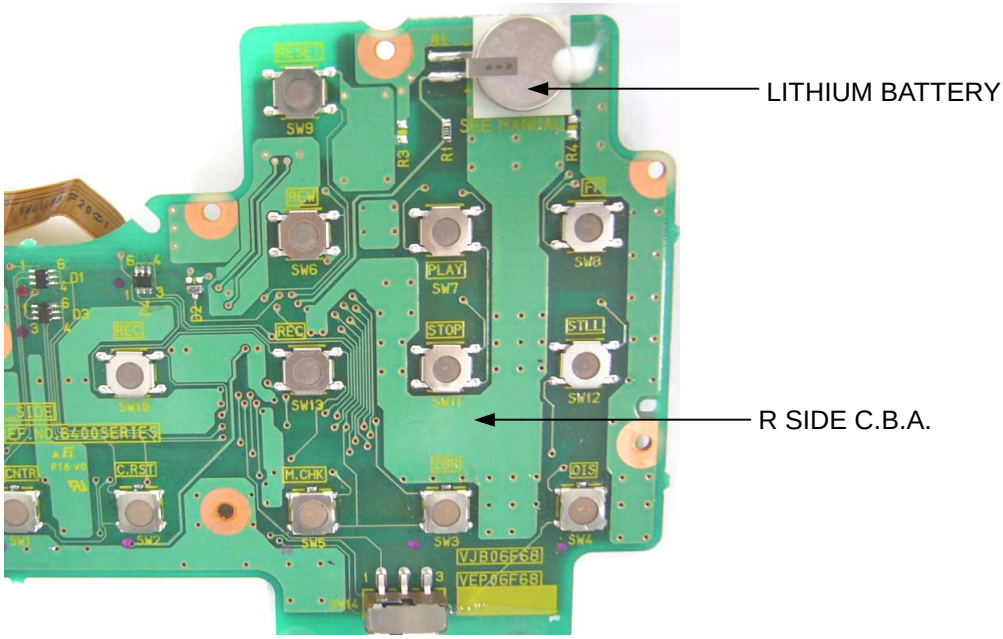
4-1. Replacement Procedure

1. There is a Lithium battery on the R_SIDE C.B.A..
2. Unsolder the Lithium battery “Ref No: B6401/Part No: VSB0407” and then replace with the new one.

<INFORMATION>

The lithium battery is not rechargeable and may be discharged.





NOTE:

The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

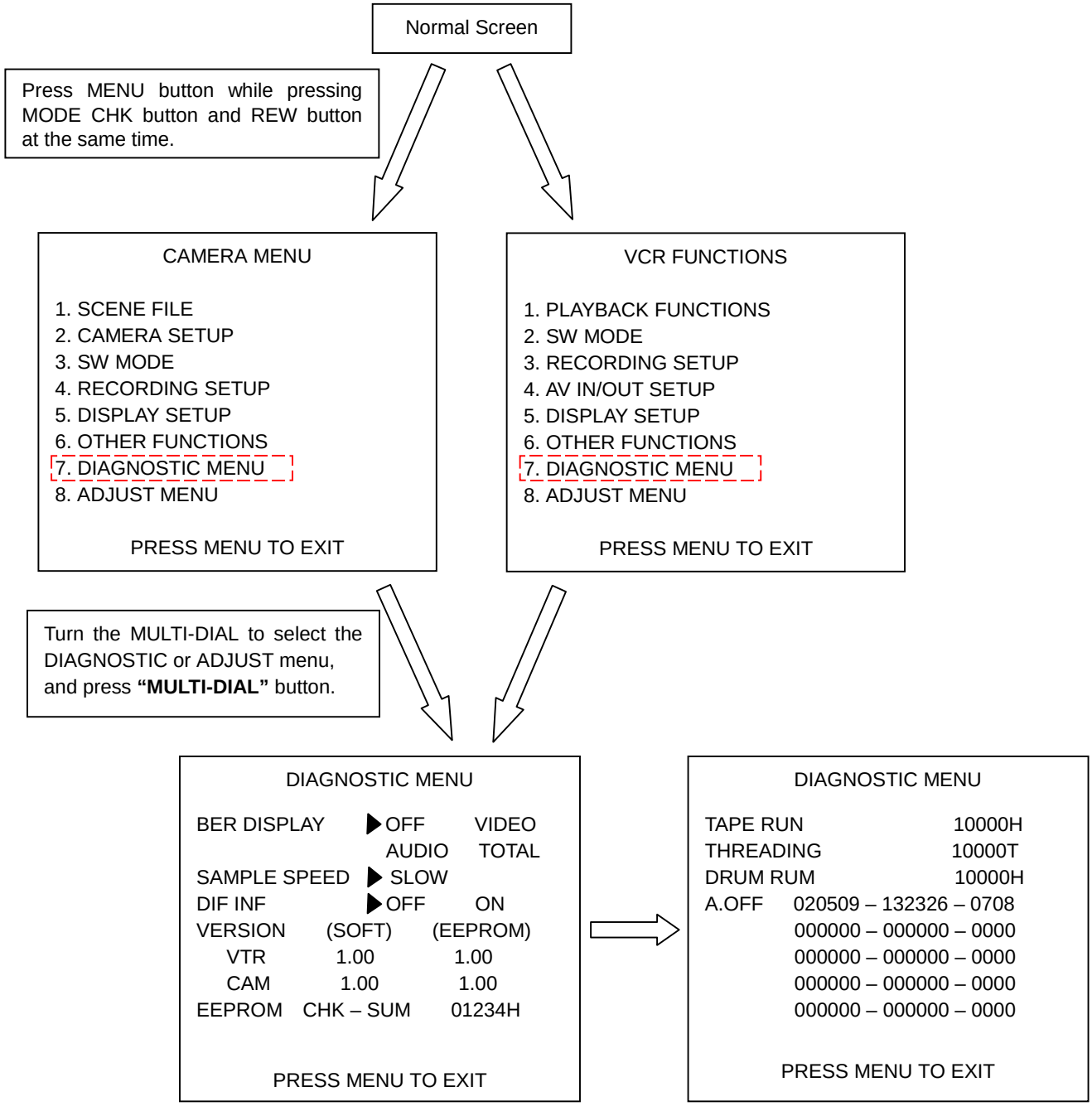
CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture’s instructions.

5. SERVICE MENU

The DIAGNOSTIC and ADJUST menu can be displayed as follows.

Press and hold the **"MENU button"**. Press and hold the **"MODE CHK button"** and **"REW button"** at the same time, DIAGNOSTIC and ADJUST menu can be displayed.
Next, turn the **"MULTI-DIAL"** to select the DIAGNOSTIC or ADJUST menu, and press **"MULTI-DIAL"** button to open the DIAGNOSTIC or ADJUST menu.
NOTE: Another way to display the "DIAG" and "ADJUST" menu when you use the EVR tools is to place the VTR test SW on the VFK1308P to the L position. See item 5-2-1 how to connect the EVR tools, on page INF-12.

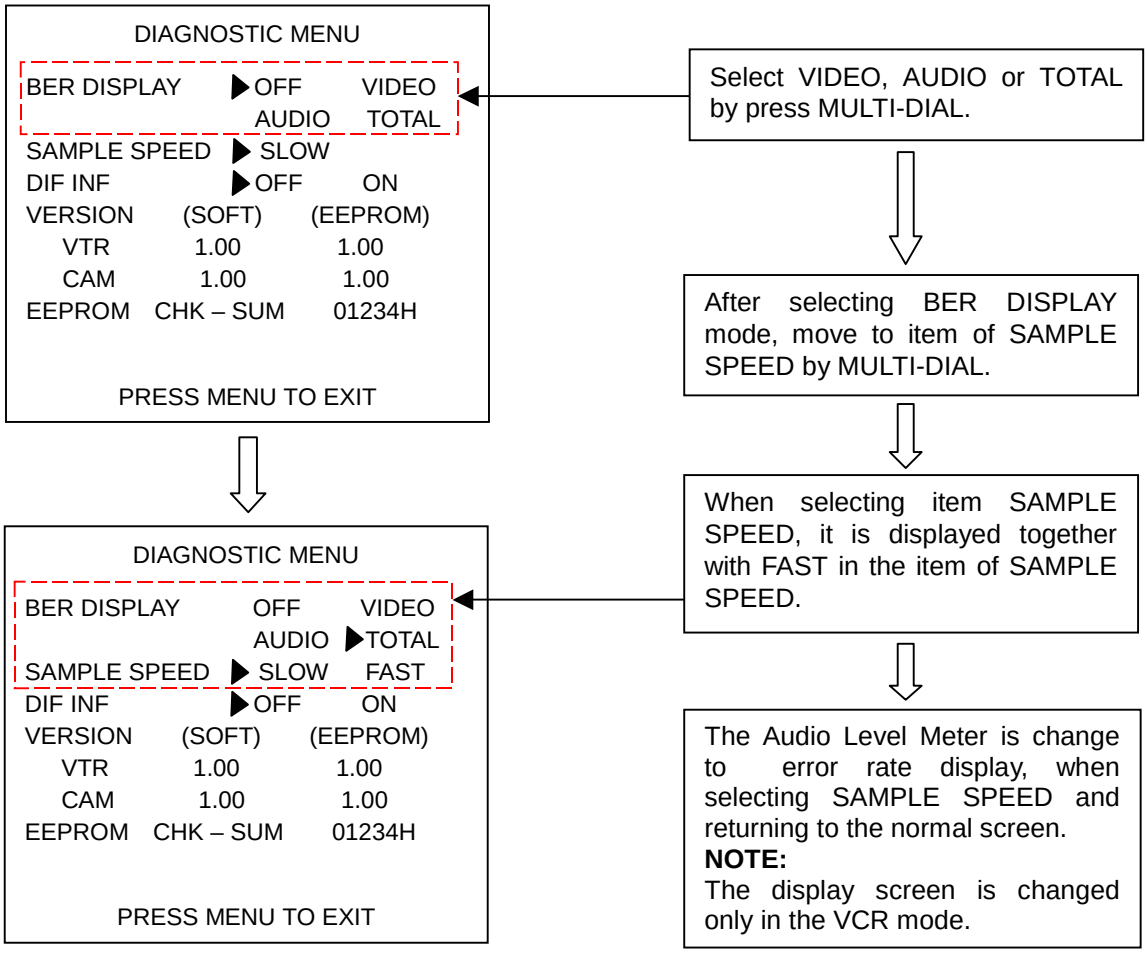


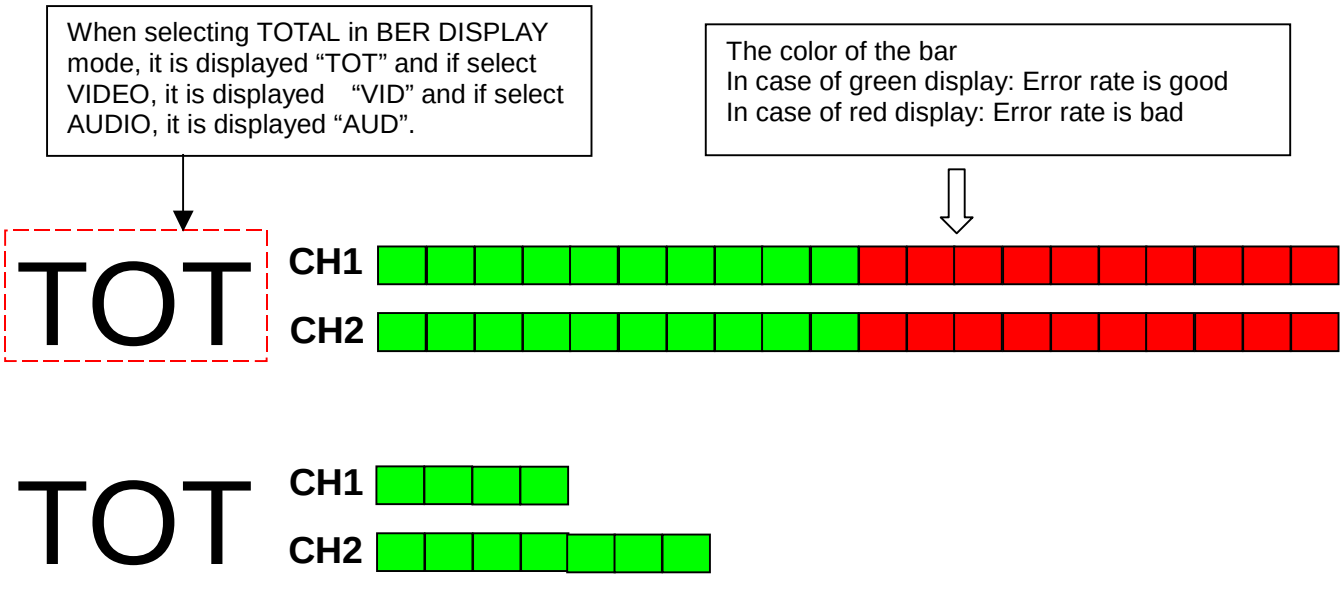
5-1. Diagnostic Menu

The DIAGNOSTIC menu is the menu to confirm the condition of the VCR and it is possible to do the confirmation of the error rate, software version, auto off log and DIF status.

5-1-1. How to display the Error Rate.

This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.

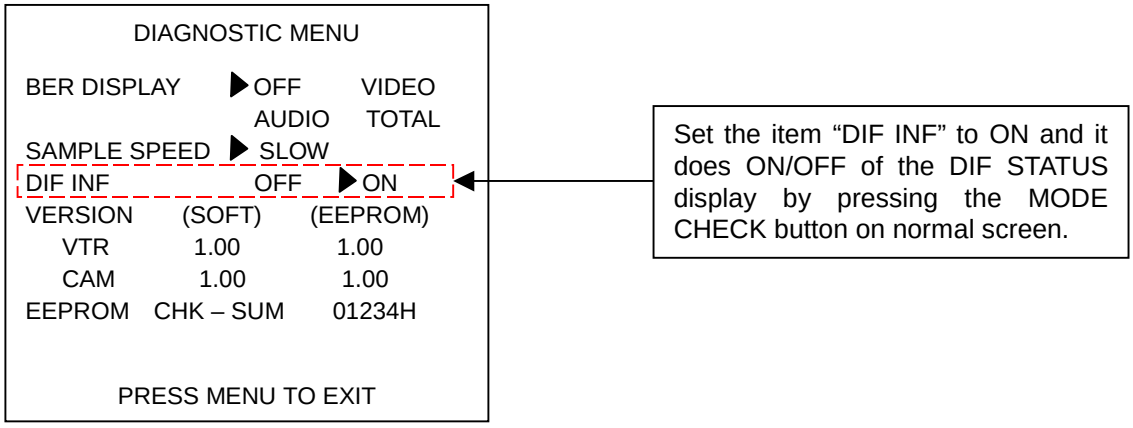




How to confirm the Error rate.

1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 bars or less. The less bars displayed the better the error rate.

5-1-2. DIF STATUS Display.



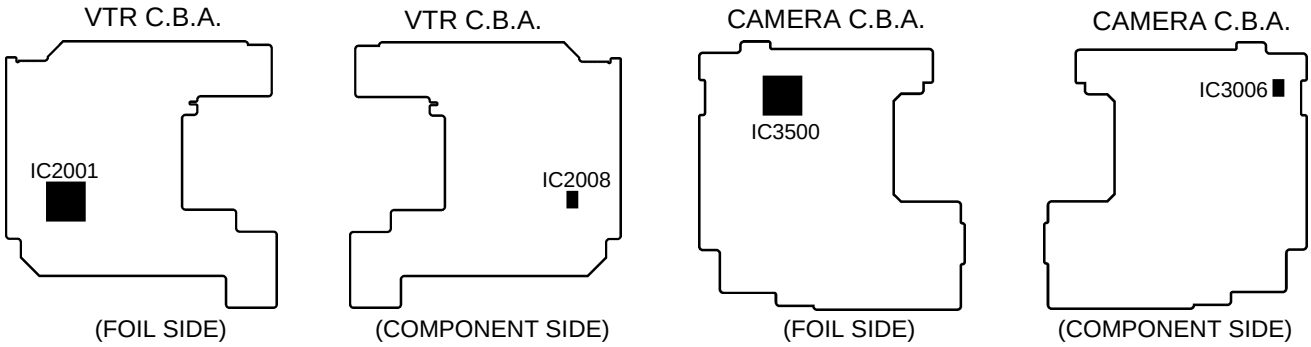
The displayed contents are as follows.

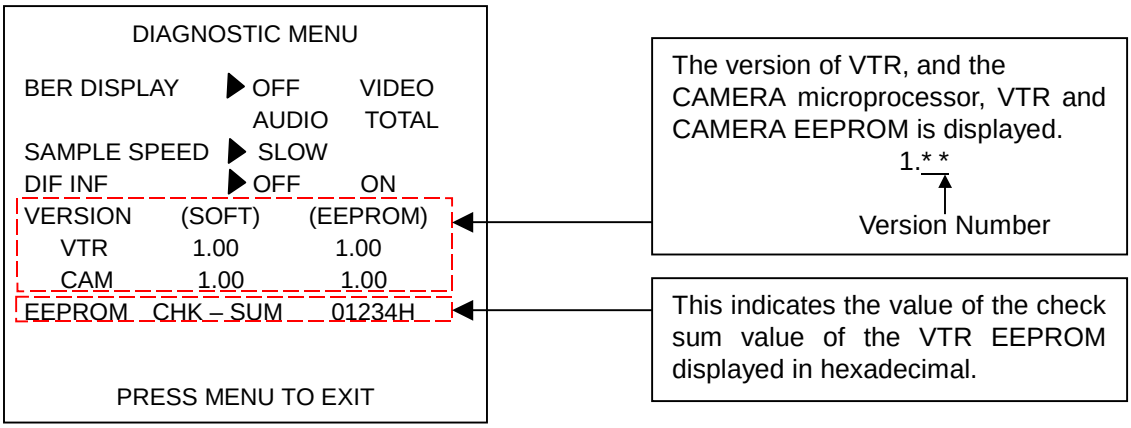
Items	Description	Remark
NODECNT	Number of NODE connections.	
MY_ID	NODE ID of this unit.	
ROOT_ID	ROOT ID	
IRM_ID	PHY ID of IRM	IRM(Isochronous Resonance Manager)
IN_CH	Input channel number of Isochronous data.	
OUT_CH	Output channel number of Isochronous data.	
DIF MODE	DIF mode	
RX_IN	Received condition of Isochronous data.	
O_BBC	Transmitted condition of Isochronous data.	
STYPE	Type of VIDEO signal	
FIELD	NTSC/PAL	
IN_SPD	Speed of Isochronous data.	OUT_SPD in CAMERA MODE
UID	USER ID of 1394 equipment	
AS	Source pack of AUDIO	
ASC	Source control pack of AUDIO	
VS	Source pack of VIDEO	
VSC	Source control pack of VIDEO	
HEADER	HEADER pack	

5-1-3. Software Version Display.

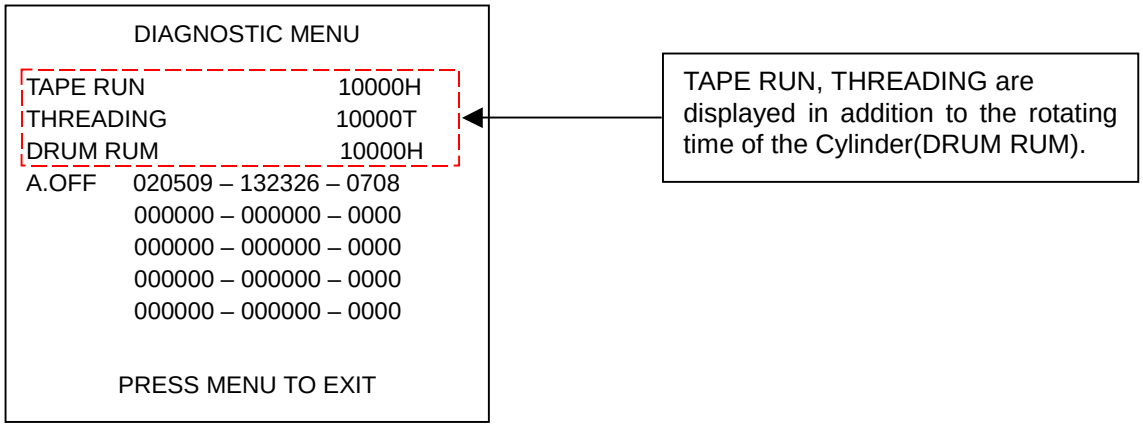
This unit have two pieces of microprocessor and two pieces of EEPROM

---	Camera board	VTR board
Microprocessor	IC3500	IC2001
EEPROM	IC3006	IC2008





5-1-4. Hour Meter Display.

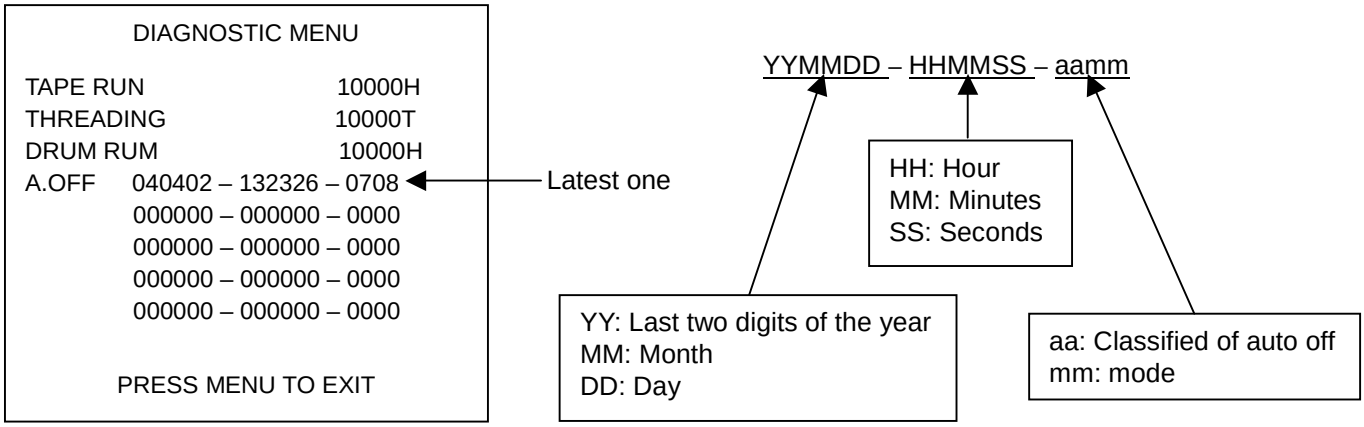


ITEM	Display Data	Description
TAPE RUN	00000H – 99999H	It displays the time that the tape is running in units of hours.
THREADING	00000T – 99999T	It displays the number of times the tape is inserted.
DRUM RUN	00000H – 99999H	It displays the time that the cylinder is rotating in units of hours. It displays same time as in the item HOUR METER of OTHER FUNCTION menu.

5-1-5. Auto Off Log

The VCR can display warning and auto off as alarm display. If case of the auto off occurs, the number and message are displayed in the normal screen. Contents of auto off can be confirm until previous 5 problem in diagnostic menu.

When auto off occurs, VCR memorizes date, time, classified of auto off and mode follow as indicated in format below. Diagnostic menu can display only 5 problems.



For example, in case of displayed “040402–132326–0708”, Cylinder Lock occurred in normal playback mode at 13:23:26 on April 2th in 2004.
Please refer to below indicated “auto off” and “mode” tables.

< aa: Classified of AUTO OFF >

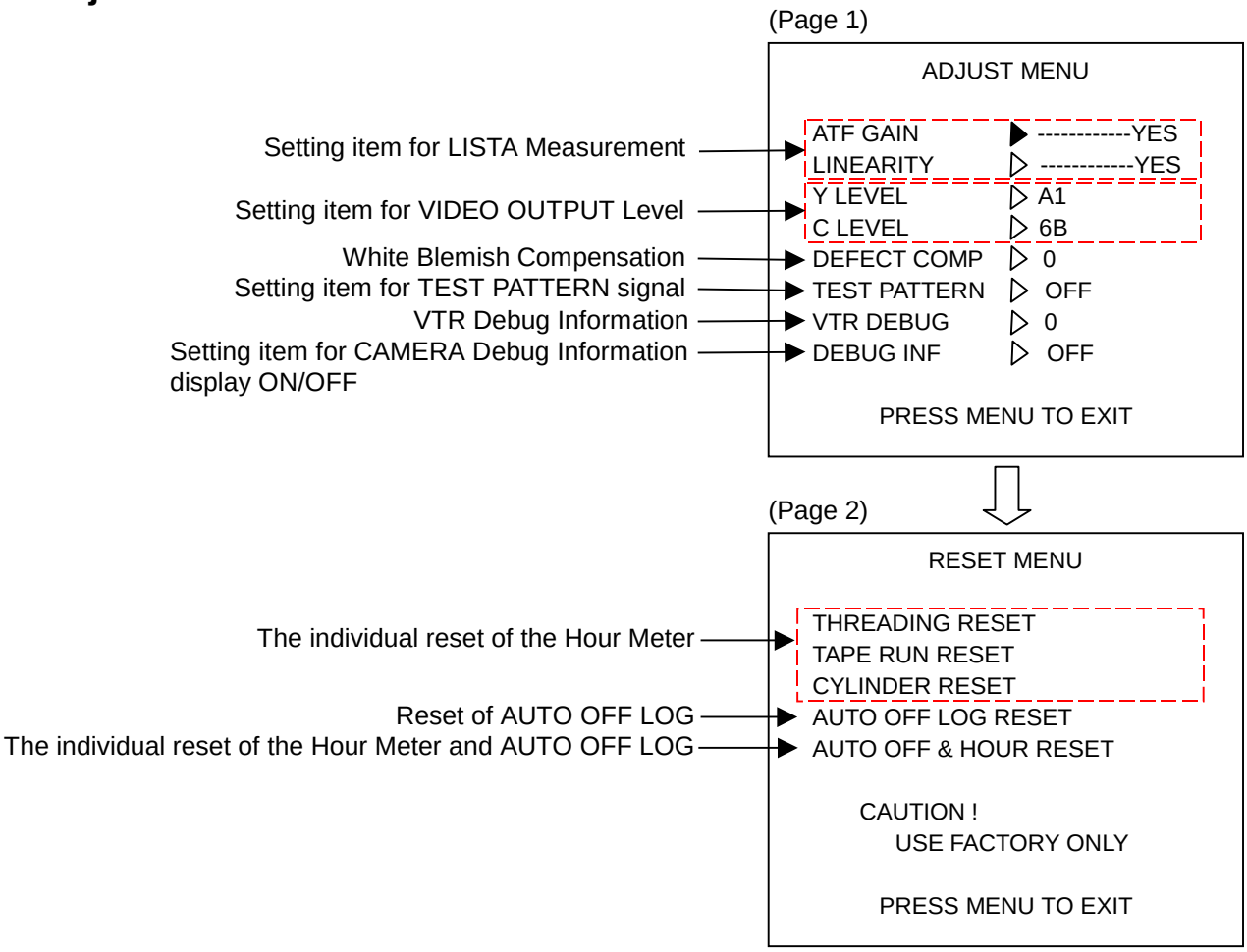
aa	Contents
01	FOCUS MOTOR LOCK
03	PSD NG
07	CYLINDER LOCK
08	LOADING LOCK
09	UNLOADING LOCK
0A	T REEL LOCK
0B	S REEL LOCK

NOTE: The messages “FOCUS MOTOR LOCK” and “PSD NG” are warning messages only and not the AUTO OFF mode.

< mm : MODE >

mm	Contents	mm	Contents
01	EJECT	12	AUDIO DUB RECORDING
02	STOP 1(CAMERA mode)	13	CAMERA RECORDING STANDBY
03	STOP 2(VCR mode)	14	CAMERA RECORDING
04	FAST FORWARD	15	CAMERA SEARCH (FORWARD)
05	REWIND	16	CAMERA SEARCH (REVERSE)
06	RECORDING STANDBY	17	REC REVIEW
07	MORMAL RECORDING	18	CAMERA EJECT
08	NORMAL PLAYBACK	1D	CYLINDER OFF
09	REVERSE PLAYBACK	22	SEARCH (FORWARD)
0A	CUE (FAST PLAYBACK)	23	SEARCH (REVERSE)
0B	REVIEW (FAST PLAYBACK)	24	BLANK SEARCH
0C	SLOW PLAYBACK	25	FRAME ADVANCE PLAYBACK
0D	REVERSE SLOW PLAYBACK	26	REVERSE FRAME ADVANCE PLAYBACK
11	AUDIO DUB STANDBY	---	---

5-2. Adjust Menu



NOTE 1: It isn't possible to do the setting of the item of DEFFECT COMP", "TEST PATTERN", "VTR DEBUG" and "DEBUG INF". This is for factory use only.

NOTE 2: The Adjust menu screen can not be shifted to Page 2 in the CAMERA mode.
The menu screen can be shifted to Page 2, when connecting EVR tools in the VCR mode and making VTR_TEST SW of the measurement board set to L position.

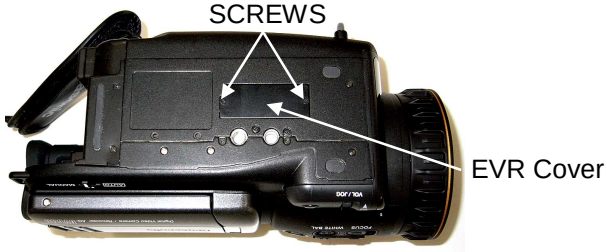
5-2-1. Connection of EVR tools

< Required Tools >

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	

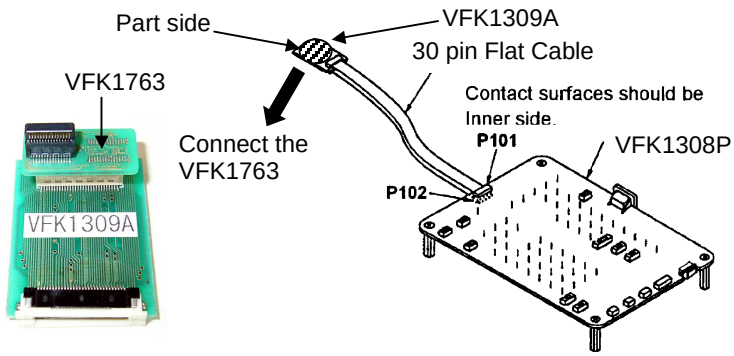
Connect the EVR tools as follows.

1. Unscrew 2 screws and remove the EVR cover.



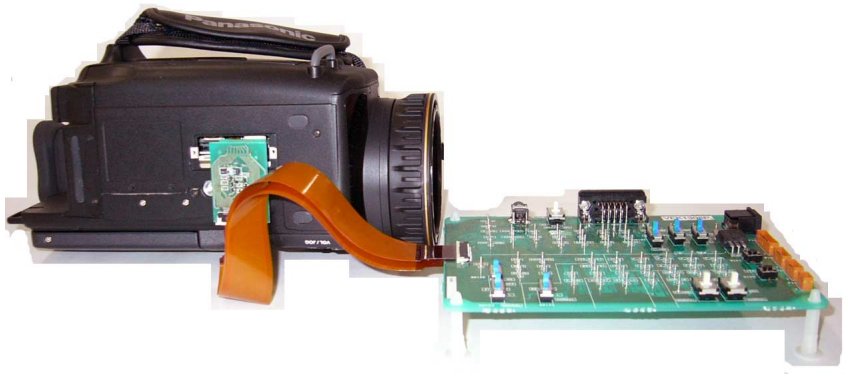
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is attached backward, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected to EVR connector, be careful of the direction of VFK1309A. Please follow as shown in the figure.



5-2-2. Setting item for LISTA Measurement (Only VCR mode)

ATF GAIN

To confirm the ATF sensitivity, change the tape speed.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.
NOW SERVO ADJUST
PUSH MENU TO RETURN
It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

LINEARITY

To confirm the LINEARITY, change the ATF sensitivity.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.
NOW SERVO ADJUST
PUSH MENU TO RETURN
It will be returned to ADJUST MENU when the MENU key is pressed in this condition.
NOTE: ATF GAIN and LINEARITY can not be selected on CAMERA mode.

5-2-3. Adjustment item for Video Level

Y LEVEL
Y level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

5-2-4. Hour Meter Reset and LOG Clear(Only VCR mode)

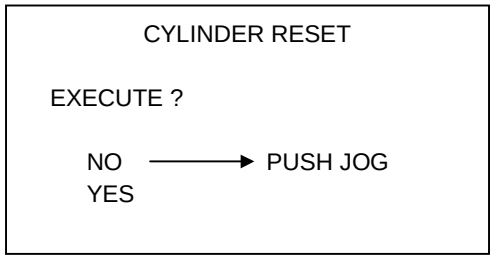
The Hour Meter and Auto Off Log data can be reset by items on page 2 in Adjust menu screen. To shift page 2 screen, connect the EVR tools and set VTR_TEST SW of the measurement board to L position follow the item "5-2-1. Connection of EVR Tools".

THREADING RESET
It resets the threading number of times.

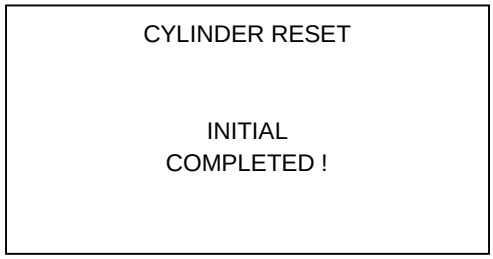
TAPE RUN RESET
It resets tape running time.

CYLINDER RESET
It resets cylinder rotating time.

< How to reset Hour Meter >
1. The following message is displayed when choosing the item to reset with MULTI-DIAL and pushing MULTI-DIAL.
(In case select the item CYLINDER)



2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.

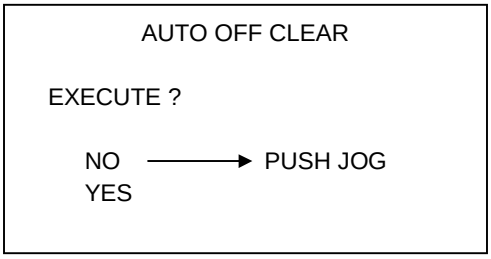


AUTO OFF LOG RESET

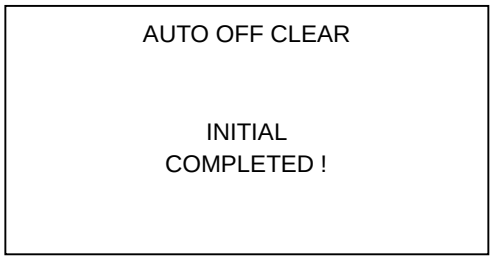
It resets auto off log information.

< How to reset Auto Off Log >

1. The following message is displayed when choosing the item “AUTO OFF LOG RESET” and pushing MULTI-DIAL.



2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.



AUTO OFF & HOUR METER RESET

It resets auto off log information and hour meter at the same time.
The procedure of resetting is same as the item auto off log and the hour meter.

6. CAMERA REMOTE

The control equipment is connected to CAMERA REMOTE jack to enable zooming and record start/stop to be initiated by remote control.
NOTE: CAMERA remote control is only effective in the CAMERA mode.
Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

Equivalent circuit of CAM REMOTE jack

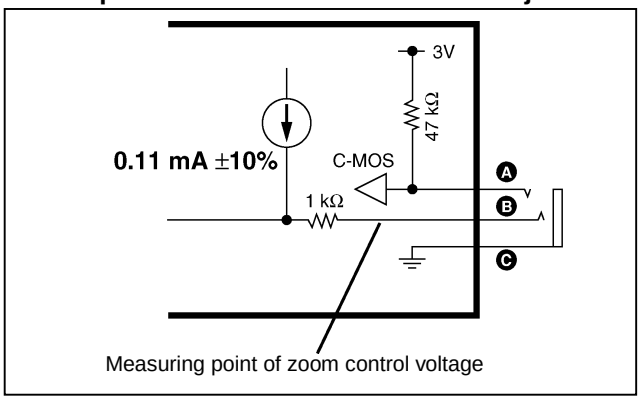


Figure A

6-1. Record start / stop input

Every time A terminal connects with the GND, it repeats recording and a recording stop.

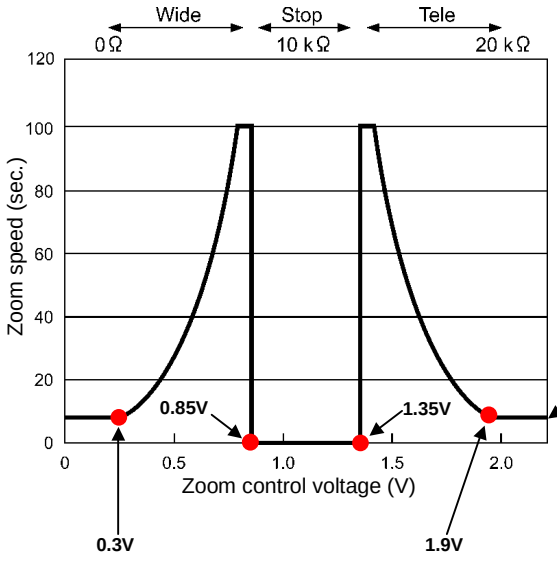
6-2. Zooming control input

With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed

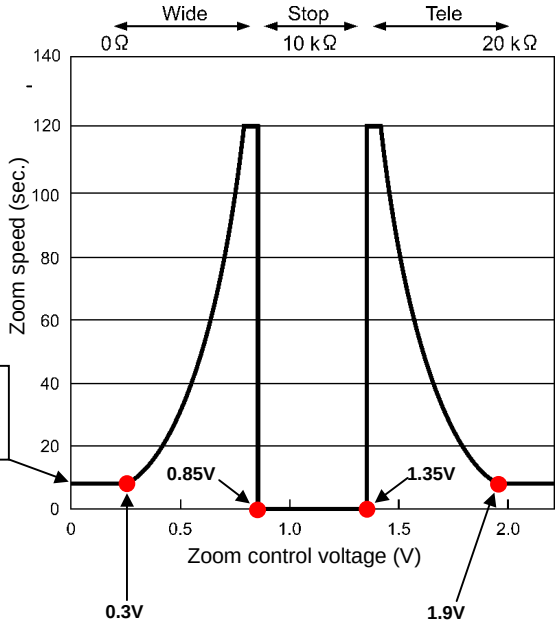
NOTE:
The control voltage and the zoom speed, which are shown below are a reference value. Because there is a little difference, see as the reference data.
And the following figure shows zoom low-speed mode. The relation between the control voltage and the zoom speed in the high speed and the medium (standard) speed modes are a little different.

In case of NTSC model

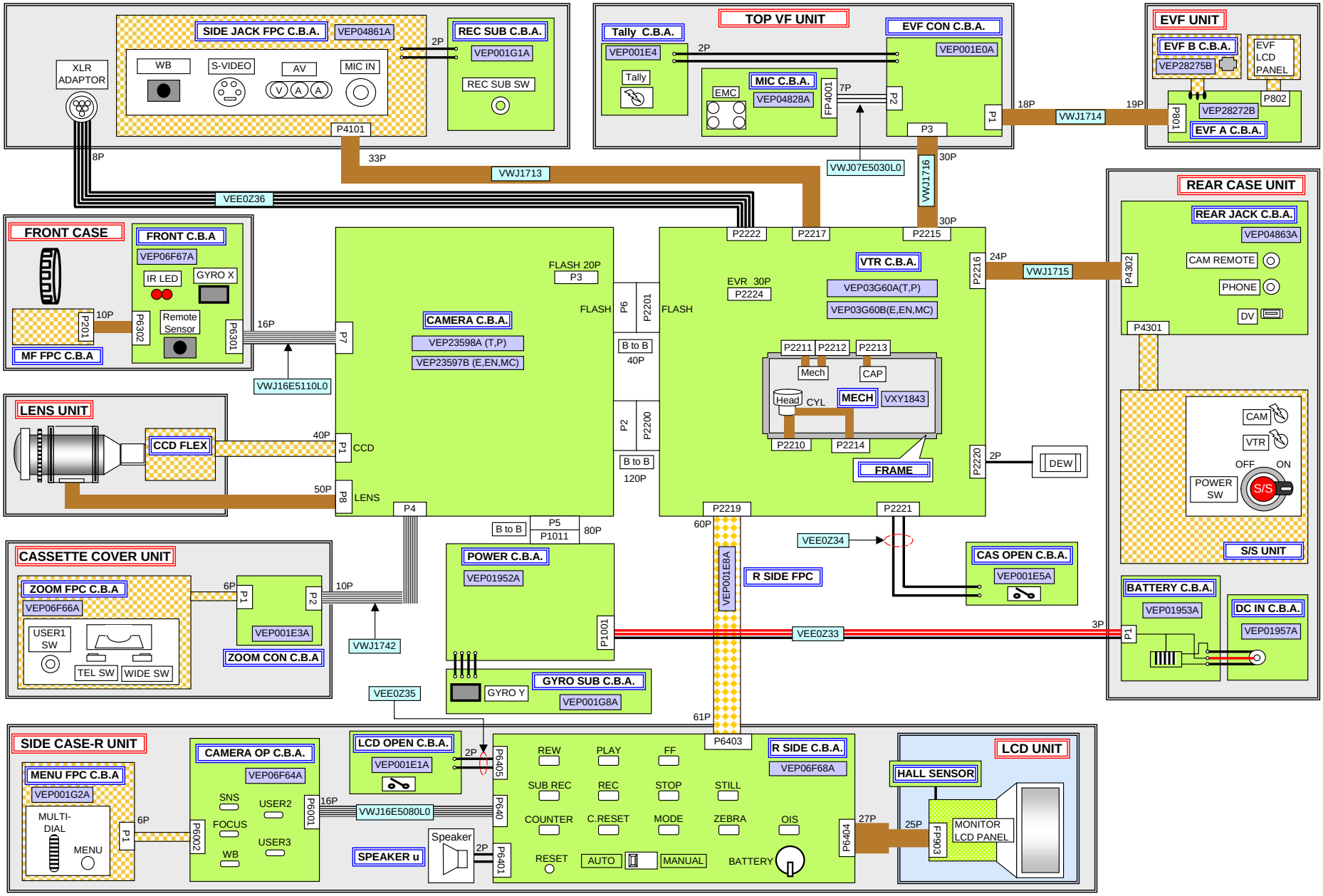


REC mode:
2sec
REC PAUSE mode:
0.85sec

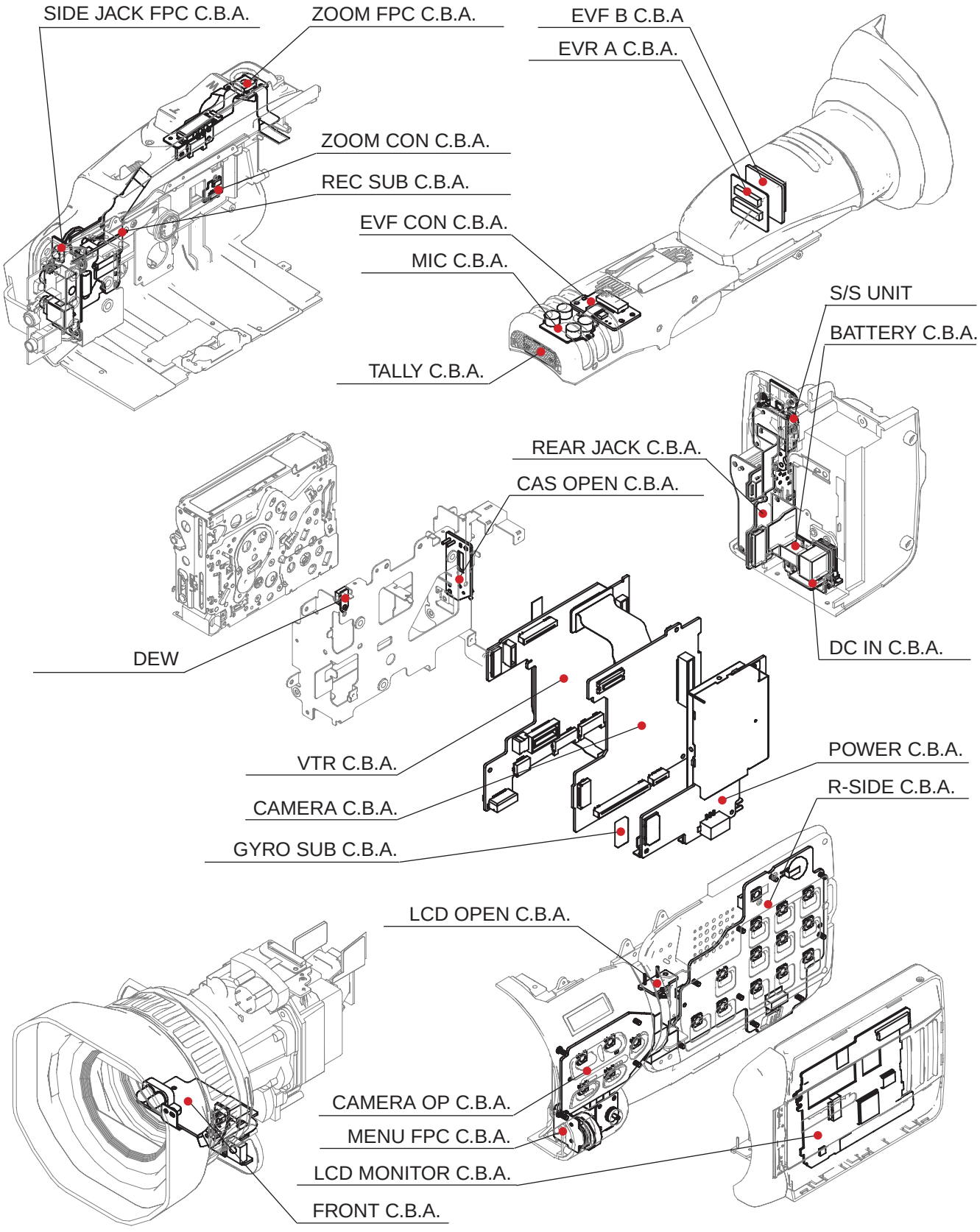
In case of PAL model



INTERCONNECTION



8. CIRCUIT BOARD LAYOUT

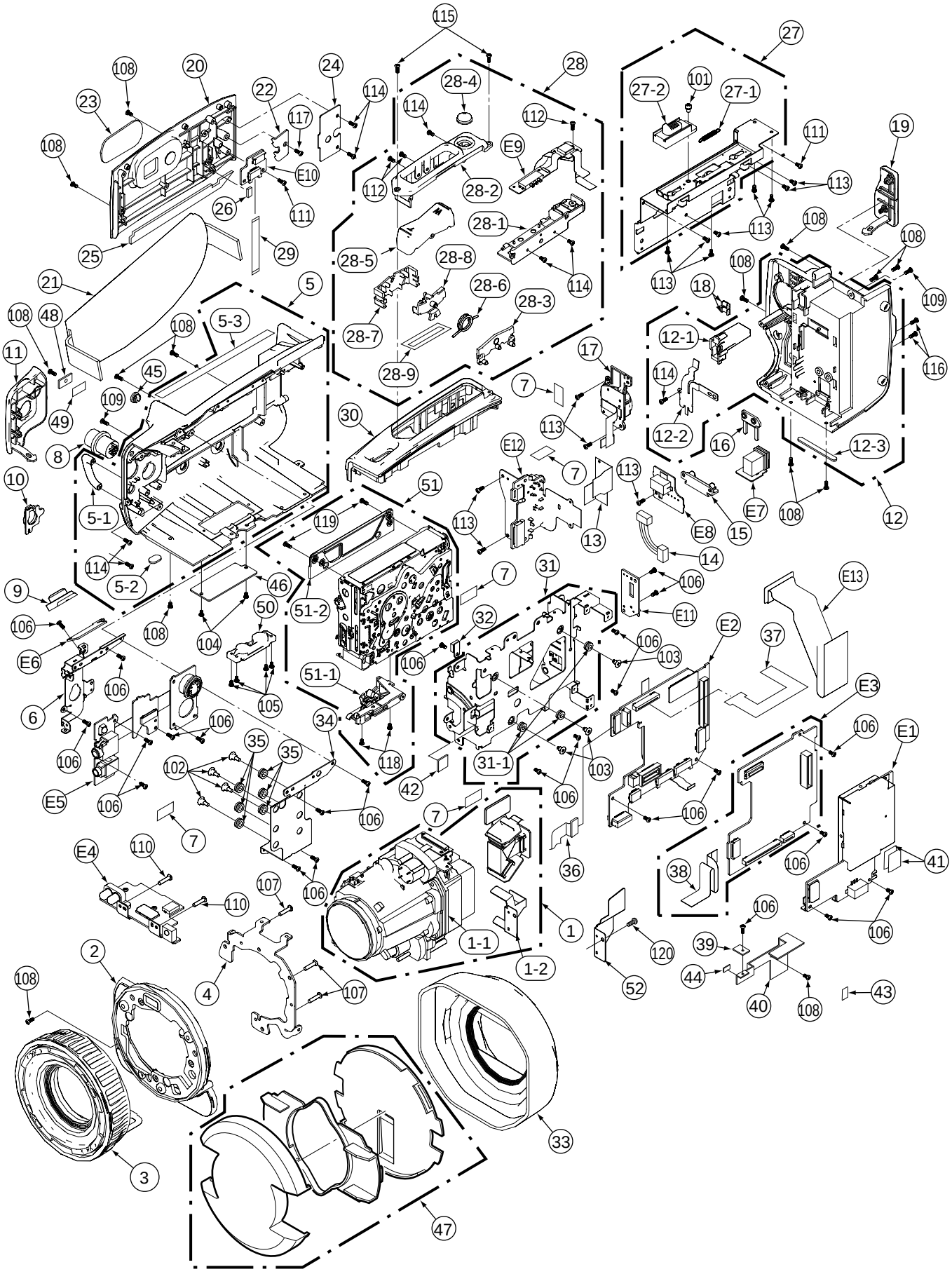


SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	NTSC MODEL ONLY
2	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	PAL MODEL ONLY
3	VFM3000EDS	DV ALIGNMENT TAPE (LINEARITY)	1	
4	VFK1217	TAPE END/BEG DETECT CASSETTE	1	
8	VFK1308P	MEASURING BOARD	1	
9	VFK1309A	EVR CONNECTOR BOARD	1	
10	VFK1763	CONNECTOR ADAPTER	1	
11	VJA0941	DC CABLE	2	K2GY2DZ00003
12	VFK1317	30PIN FLAT CABLE	2	
13	VFK1164TAR43	43MM ATTACHMENT RING]	1	
14	VFK1164TCM01	COLLIMATOR SET	1	(INFINITY LENS)
15	VFK1345	CC FILTER HOLDER	1	
16	VFK1346	STEP DOWN RING	1	
17	VFK1659	STEP-UP RING	1	(43MM-49MM)
18	VFK1660	STEP-UP RING	1	(49MM-62MM)
19	VFK1341	CC FILTER (LB40)	1	NTSC MODEL ONLY
20	VFK1342	CC FILTER (LB80)	1	PAL MODEL ONLY
21	VFK1347	CC FILTER (LB120)	1	
22	VFK1884	CC FILTER (LBA2)	1	
23	VFK1888	CC FILTER (LBB6)	1	
24	VFK1885	CC FILTER (LBB2)	1	NTSC MODEL ONLY
25	VFK1886	CC FILTER (CC C10)	1	PAL MODEL ONLY
26	VFK1887	CC FILTER (CC C20)	1	PAL MODEL ONLY
27	VFK1409A	MEASURING BOARD	1	
28	VFK1899	POST DRIVER	1	
29	VFK1810	LISTA MEASURING BOARD	1	
30	VFK1186	LISTA CABLE	1	
31	VFK1300	A/D CONVERTER BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (1)

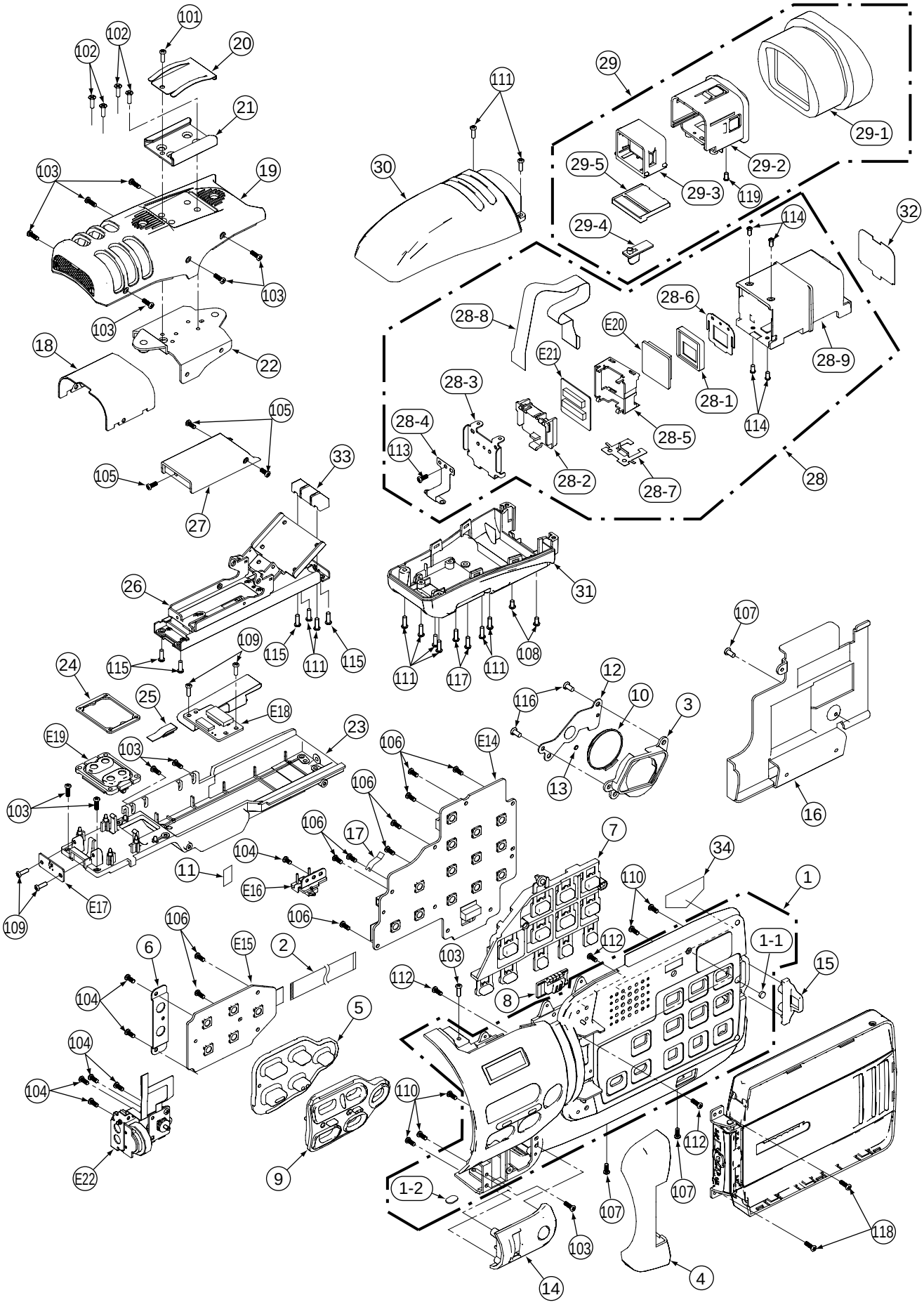


FRAME & CASING PARTS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXW0663/S	CAMERA LENS U	1	FOR AG-DVC30P
1	VXW0665/S	CAMERA LENS U	1	FOR AG-DVC30E/32EN/33MC
1-1	VXW0664	LENS U	1	
1-2	VGQ7875	HEAT SINK	1	
2	VYK1F22	FRONT CASE 1 U	1	
3	VXP2362	MF U	1	
4	VMP8012	FRONT BASE	1	
5	VYK1F32	SIDE CASE L 1 U	1	
5-1	VGQ6966	GLIP BELT PIECE	1	
5-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
5-3	VMT1609	SIDE (L) GASKET	1	
6	VMP8002	SIDE JACK FRAME	1	
7	VMZ3316	MONITOR FPC PROTECT SHEET	5	
8	VEE0Z36	MINI XLR HARNESS	1	
9	VGU9630	S/S BUTTON	1	
10	VGQ7941	MIC JACK COVER	1	
11	VJF1493	SIDE JACK COVER	1	
12	VYK1F36	REAR CASE 1 U	1	
12-1	VGU9617	BATTERY LOCK BUTTON	1	
12-2	VMC1804	BATTERY LOCK SPRING	1	
12-3	VKA0340	GLIP DUSTPROOF RUBBER	1	
13	VWJ1715	REAR FPC	1	
14	VEE0Z33	BATTERY HARNESS	1	
15	K4ZZ04000032	TERMINAL	1	
16	VMP7340	DCIN ANGLE	1	
17	N9ZZ00000252	S/S U	1	
18	VKW3222	MODE PANEL LIGHT	2	
19	VJF1494	REAR JACK COVER	1	
20	VGP6061	CASETTE COVER (L)	1	
21	VFB0218	HAND STRAP	1	
22	VMP8007	GLIP BELT FIX ANGLE	1	
23	VGH4759	CASSETTE COVER WINDOW	1	FOR AG-DVC30P
23	VGH4760	CASSETTE COVER WINDOW	1	FOR AG-DVC30E/32EN/33MC
24	VGF0998	BLIND PLATE	1	
25	VMT1574	CASSETTE COVER GASKET	1	
26	VMT1610	GYRO PCB CUSHION	1	
27	VXA7822	CASSETE COVER ROCK U	1	
27-1	VMB3680	EJECT LOCK BUTTON SPRING	1	
27-2	VGQ7943	EJECT BUTTON	1	
28	VYQ3026	ZOOM SW U	1	
28-1	VGQ7942	ZOOM LEVER CASE (R)	1	
28-2	VGQ6904	ZOON LEVER CASE (L)	1	
28-3	VGQ6928	ZOOM SW HOLDER	1	
28-4	VGU9203	REC CHECK RUBBER BUTTON	1	
28-5	VGU9215	ZOOM LEVER	1	
28-6	VMB3663	COIL SPRING ZOOM	1	
28-7	VGQ6996	ZOOM HOLDER (R)	1	
28-8	VGQ6997	ZOOM SPRING HOLDER PIECE	1	
28-9	VMZ3406	ZOOM PCB BLIND SHEET	1	
29	VWJ1742	ZOOM FFC	1	
30	VGP6060	CASSETTE COVER (U)	1	
31	VXK1788	MECHA ATTACH FRAME 1 U	1	
31-1	VMG1107	MECH DUMPER RUBBER	3	
32	L2B000000001	SENSOR UNIT	1	
33	VYF2982	HOOD U	1	
34	VMP8001	LENS FRAME	1	
35	VMG1463	DUSTPROOF RUBBER	6	
36	VWJ1713	SIDE JACK FPC	1	
37	VWJ1714	EVF CN FPC	1	
38	VWJ16E5110L0	FFC CABLE	1	
39	VSC5621	CCD CON SHIELD	1	
40	VSC5622	CCD CON STOPPER	1	
41	VGQ8091	COOLING SHEET P	2	
42	VGQ8093	COOLING SHEET M	1	
43	VGQ8094	COOLING SHEET CR	1	
44	VMZ3465	CD CON CUSHION	1	
45	VKF3415	MECHA COVER (L)	1	
46	VGQ5988	EVR COVER	1	
47	VYK0Z96	LENS CAP U	1	
48	VGP6074	MECHA COVER (R)	1	
49	VGF1009	MECHA COVER SHEET	1	
50	VMD5058	TRIPOD BASE	1	
51	VXY1843	MECHA CHASSIS U	1	
51-1	VML3876	CLEANING ROLLER U	1	
51-2	VGQ7971	GARAGE COVER	1	
52	VMA0S43	CONNECTION PLATE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
101	DXYN2+J4FNNT	SCREW	1	
102	VHD1132	SCREW	4	
103	VHD1133	SCREW	3	
104	VHD1451	SCREW	2	
105	VHD1601	SCREW	4	
106	XQN16+B3FN	SCREW	25	
107	XYN2+J8	SCREW	3	
108	XQN16+B4FZ	SCREW	14	
109	XQN16+B5FZ	SCREW	2	
110	XQN16+BJ35FN	SCREW	2	
111	XQN16+BJ3FN	SCREW	2	
112	XQN16+BJ3FZ	SCREW	3	
113	XQN16+BJ4FN	SCREW	13	
114	XQN16+BJ4FZ	SCREW	8	
115	XQN16+BJ6FZ	SCREW	2	
116	XQN2+B4FZ	SCREW	2	
117	XTB26+6GFZ	SCREW	1	
118	XQN14+B25	SCREW	2	
119	XQN16+B22FZ	SCREW	2	
120	XQN16+CJ4	SCREW	1	
E1	VEP01952A	POWER C.B.A.	1	
E2	VEP03G60A	VTR C.B.A.	1	FOR AG-DVC30P
E2	VEP03G60B	VTR C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E3	VEP23598A	CAMERA C.B.A.	1	FOR AG-DVC30P
E3	VEP23598B	CAMERA C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E4	VEP06F67A	FRONT C.B.A.	1	
E5	VEP04861A	SIDE JACK FLEX C.B.A.	1	
E6	VEP001G1A	SUB REC C.B.A.	1	
E7	VEP01957A	DC IN C.B.A.	1	
E8	VEP01953A	BATTERY C.B.A.	1	
E9	VEP06F66A	ZOOM FLEX C.B.A.	1	
E10	VEP001E3A	ZOOM CON C.B.A.	1	
E11	VEP001E5A	CAS OPEN C.B.A.	1	
E12	VEP04863A	REAR JACK C.B.A.	1	
E13	VEP001E8A	R-SIDE FLEX C.B.A.	1	

FRAME & CASING PARTS ASSEMBLY (2)

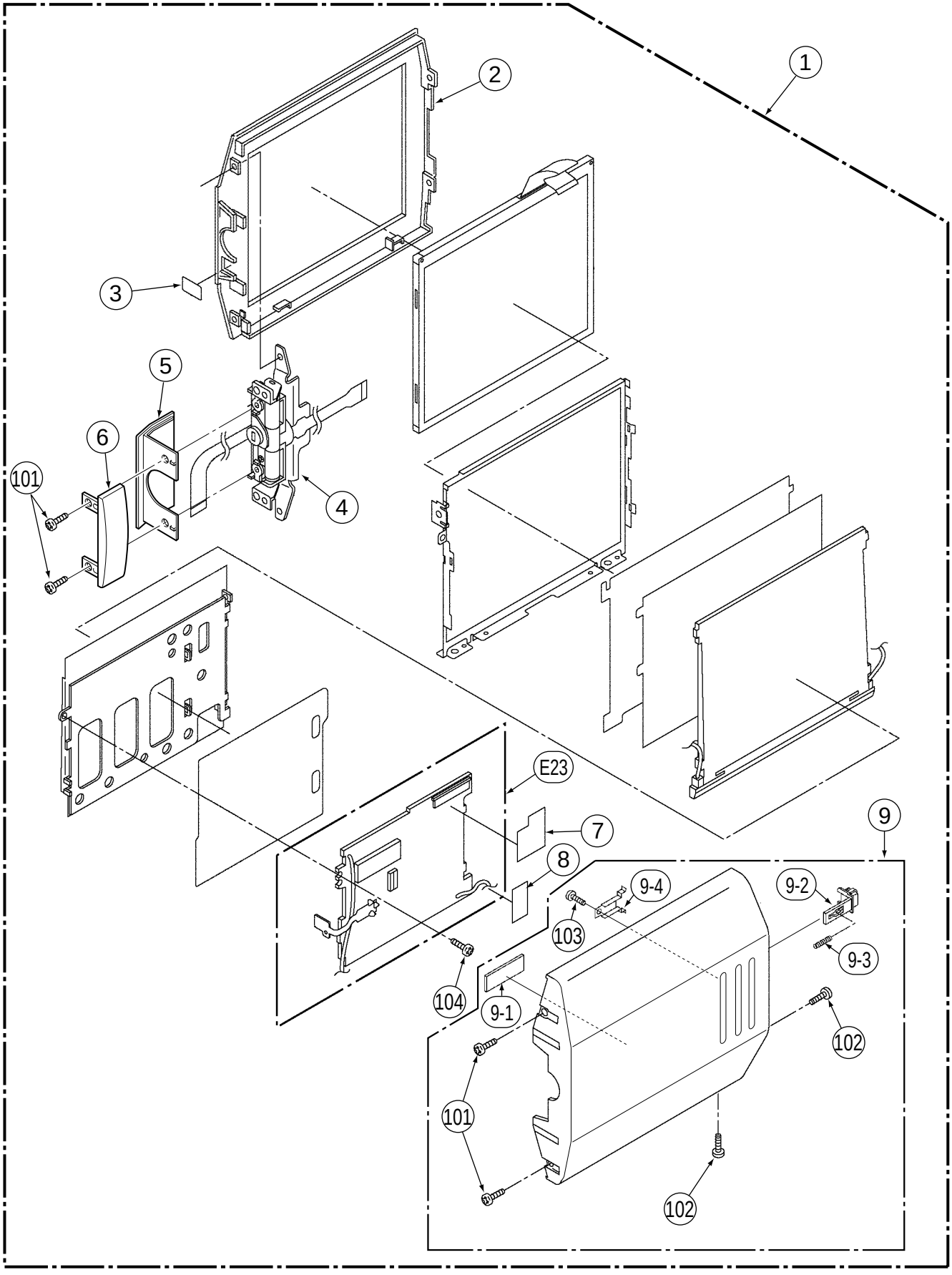


FRAME & CASING PARTS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F30	SIDE CASE R 1 U	1	
1-1	VMT1547	LCD CUSHION	1	
1-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
2	VWJ16E5080L0	FLAT CABLE	1	
3	VGQ6897	SPEAKER HOLDER	1	
4	VGP6064	HINGE COVER	1	
5	VGU9618	CAM BUTTON	1	
6	VMP8019	CAMERA PCB FRAME	1	
7	VGU9619	VTR BUTTON	1	
8	VGU9620	A/M KNOB	1	
9	VGQ7939	CAM BUTTON HOLDER	1	
10	VEK9842	SPEAKER ASS'Y	1	
11	VMZ3316	MONITOR FPC PROTECT SHEET	1	
12	VMP7330	SPEAKER HOLDER ANGLE	1	
13	VMT1347	SPEAKER HOLDER CUSHION	1	
14	VYP8947	MENU PANEL U	1	
15	VGQ7940	LCD LOCK BASE	1	
16	VSC5625	HEAT SINK (SIDE R)	1	
17	VMC1936	KNOB HOLD FRAME	1	
18	VYQ3027	MIC NET U	1	
19	VYK1F42	MIC CASE 1 U	1	
20	VMC1931	SPRING	1	
21	VJF1504	SHOE	1	
22	VMP8023	SHOE HOLD ANGLE	1	
23	VYK1F34	TOP CASE 1 U	1	
24	VGQ6352	DUMPER HOLDER PIECE	1	
25	VWJ07E5030L0	FFC CABLE	1	
26	VXA7804	EVF SLIDE U	1	
27	VKF3890	EVF SLIDE COVER	1	
28	VYQ3024	EVF LCD HOLDER U	1	
28-1	L5BDDXE00001	ACTIVE MATRIX LCD PANEL	1	
28-2	VGQ6927	EVF COVER	1	
28-3	VMP7360	EVF COVER ANGLE	1	
28-4	VMC1919	EVF EARTH SPRING	1	
28-5	VMX2967	PB SPACER	1	
28-6	VGQ7088	LCD MASK	1	
28-7	VMC1612	EVF EARTH SPRING	1	
28-8	VWJ1716	EVF FPC	1	
28-9	VGQ7947	EVF LCD CASE	1	
29	VYK8120	EYE CAP HOLDER U	1	
29-1	VMG1100	EYE CAP	1	
29-2	VGQ4586	EYE CAP HOLDER	1	
29-3	VYQ1445	LENS HOLDER	1	
29-4	VGU7612	EYE SIGHT KNOB	1	
29-5	VGQ4588	KNOB GUIDE	1	
30	VYK1F24	EVF TOP CASE U	1	
31	VGP6063	EVF CASE (UNDER)	1	
32	VGQ7948	EVF LCD FILTER	1	
33	VGF1001	TOP BLINDFOLD PIECE	1	
34	VGQ8092	COOLING SHEET R	1	
101	DXSN2+4FCNT	SCREW	1	
102	DXSS2+5FZNT	SCREW	4	
103	XQN16+B5FZ	SCREW	12	
104	XQN16+B3FN	SCREW	7	
105	XQN16+B3FZ	SCREW	3	
106	XQN16+B4FN	SCREW	10	
107	XQN16+B4FZ	SCREW	3	
108	XQN16+BJ3FZ	SCREW	2	
109	XQN16+BJ4FN	SCREW	4	
110	XQN16+BJ4FZ	SCREW	5	
111	XQN16+BJ5FZ	SCREW	10	
112	XQN16+BJ6FZ	SCREW	4	
113	XQN16+C25FZ	SCREW	1	
114	XQN16+C3	SCREW	4	
115	XQN2+A5FZ	SCREW	4	
116	XQN2+C5	SCREW	2	
117	XQS16+AJ5FZ	SCREW	2	
118	XYN2+C5	SCREW	2	
119	XQN16+BJ3FN	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E14	VEP06F68A	R-SIDE C.B.A.	1	
E15	VEP06F64A	CAMERA OP C.B.A.	1	
E16	VEP001E1A	LCD OPEN C.B.A.	1	
E17	VEP001E4A	TALLY C.B.A.	1	
E18	VEP001E0A	EVF CON C.B.A.	1	
E19	VEP04828A	MIC C.B.A.	1	
E20	VEP28272B	EVF A C.B.A.	1	
E21	VEP28275B	EVF B C.B.A.	1	
E22	VEP001G2A	MENU FLEX C.B.A.	1	

LCD PARTS ASSEMBLY

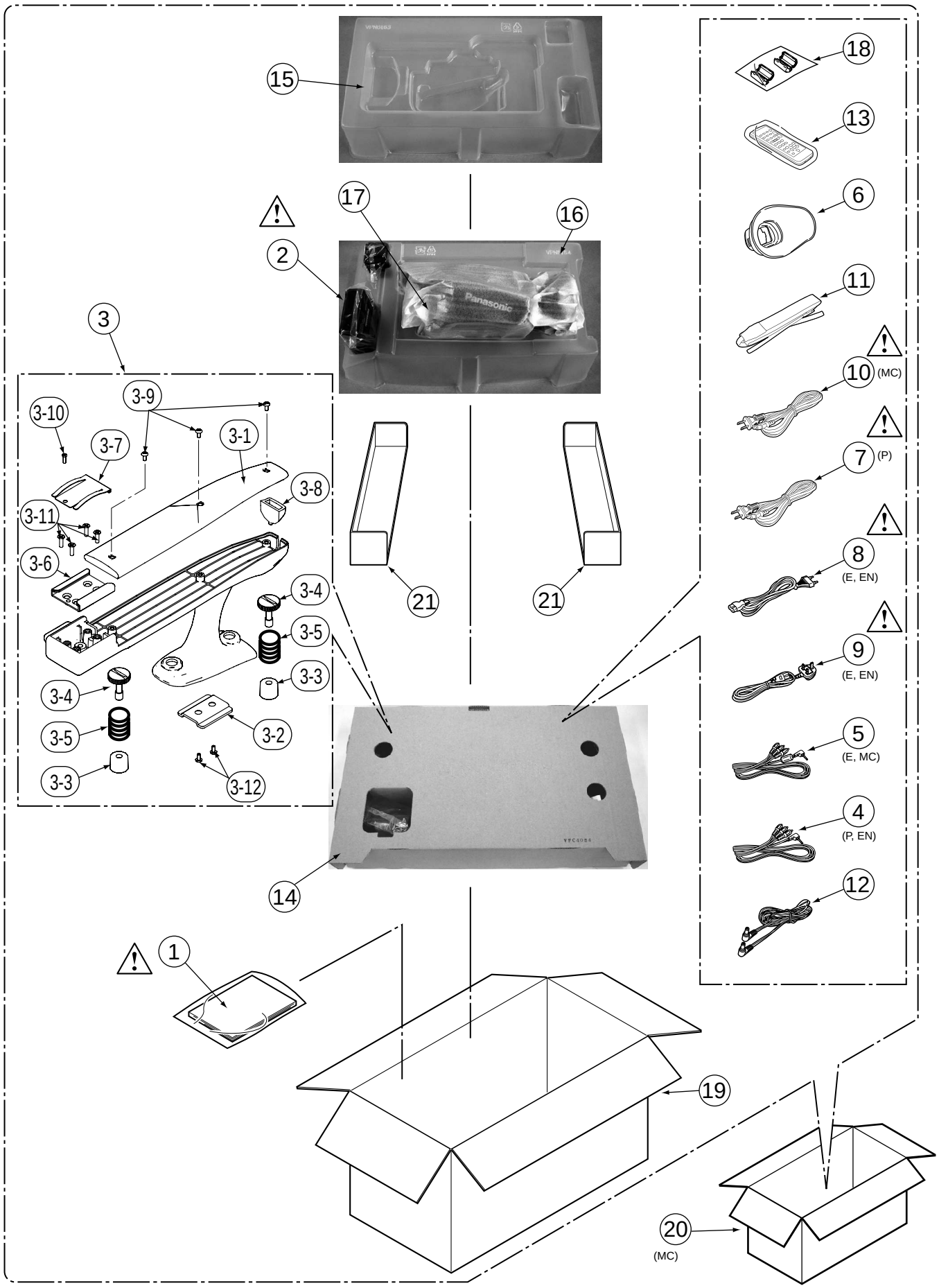


LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F09S	LCD U	1	FOR AG-DVC30P/E
1	VYK1J18	LCD U	1	FOR AG-DVC32EN
1	VYK1F19S	LCD U	1	FOR AG-DVC33MC
2	VKM6484	LCD CASE (BOTTOM)	1	
3	VGQ4758	BLIND SHEET (A)	1	
4	VXD0424S	LCD HINGE U	1	
5	VGQ7950	HINGE CASE (BOTTOM)	1	
6	VGQ7949	HINGE CASE (TOP)	1	
7	VGQ6644	BARRIER (LCD)	1	
8	VGQ6286	LCD BARRIER	1	
9	VYK1F27S	LCD CASE (TOP) U	1	FOR AG-DVC30P/E
9	VYK1J19	LCD CASE (TOP) U	1	FOR AG-DVC32EN
9	VYK1F28S	LCD CASE (TOP) U	1	FOR AG-DVC33MC
9-1	VGQ6290	LCD CUSHION	1	
9-2	VGQ7951	LCD LOCK PIECE	1	
9-3	VMB3217	LCD LOCK SPRING	1	
9-4	VMP6292	LOCK PIECE FIX ANGLE	1	
101	VHD1451	SCREW	4	
102	XQN16+B25FN	SCREW	2	
103	XQS16+AJ3	SCREW	1	
104	XQN16+B2FN	SCREW	1	
E23	VEP26257B	MONITOR C.B.A.	1	

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

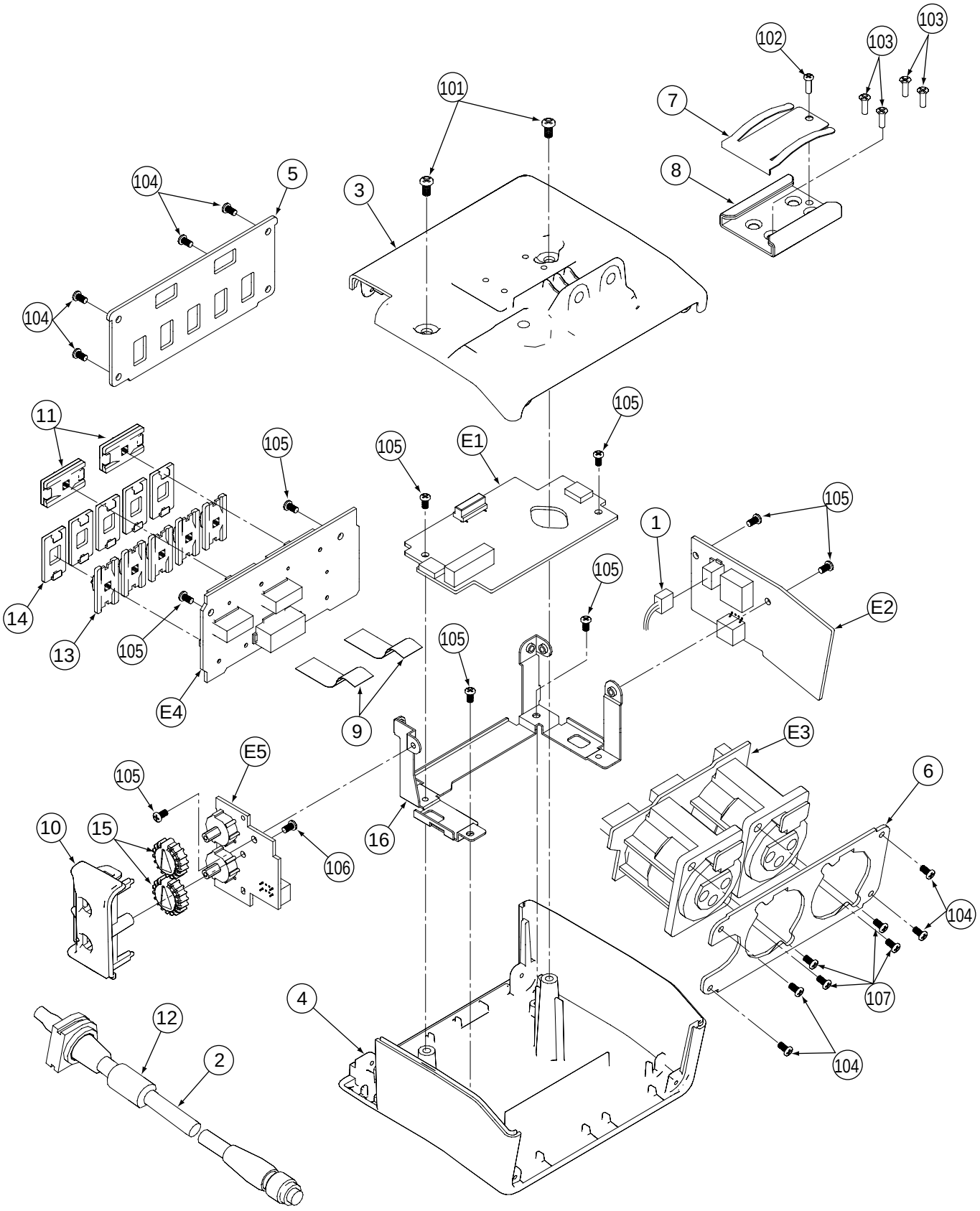


PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VQT0J25	OPERATING INSTRUCTIONS	1	FOR AG-DVC30P
⚠ 1	VQT0J26	OPERATING INSTRUCTIONS	1	FOR AG-DVC30E
⚠ 1	VQT0L09	OPERATING INSTRUCTIONS	1	FOR AG-DVC32EN
⚠ 1	VQT0J27	OPERATING INSTRUCTIONS	1	FOR AG-DVC33MC
⚠ 2	DE-852DB	AC ADAPTOR	1	FOR AG-DVC30P
⚠ 2	DE-811DB	AC ADAPTOR	1	FOR AG-DVC30E/32EN
⚠ 2	DE-811FB	AC ADAPTOR	1	FOR AG-DVC33MC
3	VYH0312	HANDLE U	1	
3-1	VGQ7970	HANDLE COVER	1	
3-2	VGM2084	HANDLE SPACER	1	
3-3	VMG1627	HANDLE HOLD RUBBER	2	
3-4	VHD1661	HANDLE HOLD SCREW	2	
3-5	VMB3894	HANDLE SCREW FLAT SPRING	2	
3-6	VJF1504	SHOE	1	
3-7	VMC1931	SPRING	1	
3-8	VMG1628	HANDLE CUSHION RUBBER	1	
3-9	XQN2+A5FZ	SCREW	3	
3-10	DXSN2+4FCNT	SCREW	1	
3-11	DXSS2+4FZNT	SCREW	4	
3-12	DXSS3+6FZNT	SCREW	2	
4	K2KC4CB00009	AV CABLE	1	FOR AG-DVC30P/32EN
5	VYC0922	AV CABLE	1	FOR AG-DVC30E/33MC
6	VMG1370	EYE CAP	1	
⚠ 7	K2CB2CB00006	POWER CORD	1	FOR AG-DVC30P
⚠ 8	K2CR2DA00005	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 9	K2CT3DA00001	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 10	K2CA2DA00030	POWER CORD	1	FOR AG-DVC33MC
11	VFC3891	SHOULDER BELT	1	
12	K2GJ2DC00002	DC CORD	1	
13	VFA0402	WIRELESS REMOTE CONTROL	1	
14	VPG0Y21	ACCESSORY BOX	1	
15	VPN6164	CUSHION (B)	1	
16	VPN6163	CUSHION (T)	1	
17	VPF1218	PROTECTION BAG	1	
18	J0KG00000013	CORE	2	FOR AG-DVC30E/32EN/33MC
19	VPG0Y08	PACKING CASE (P) B	1	FOR AG-DVC30P
19	VPG0Y09	PACKING CASE (P) B	1	FOR AG-DVC30E
19	VPG0Z57	PACKING CASE (P) B	1	FOR AG-DVC32EN
19	VPG0Y11	PACKING CASE (P) B (IN)	1	FOR AG-DVC33MC
20	VPG0Y10	PACKING CASE (OUT)	1	FOR AG-DVC33MC
21	VPN6237	PARTITION PLATE	2	

CABINET PARTS ASSEMBLY (AG-MYA30G)

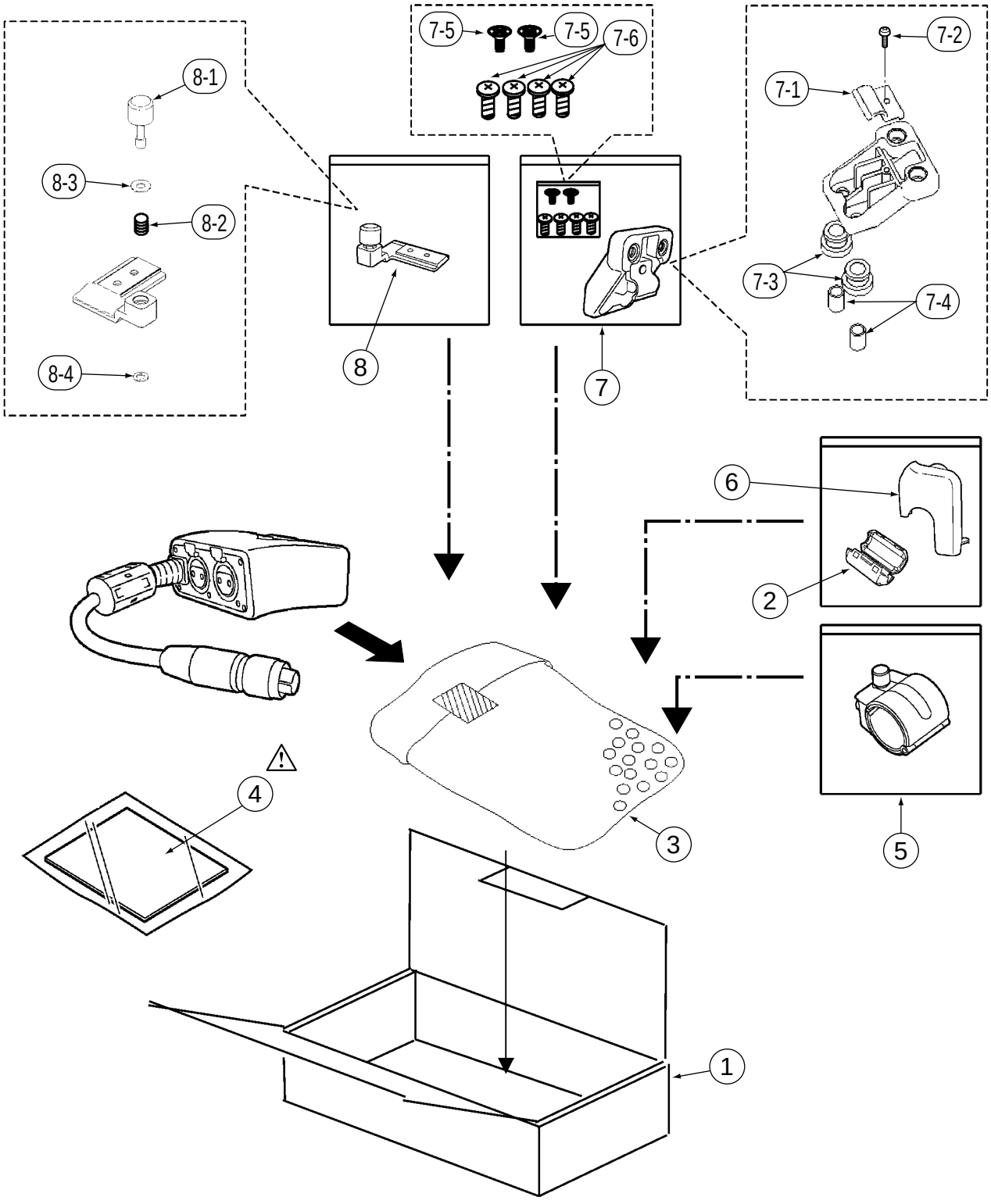


CABINET PARTS ASSEMBLY (AG-MYA30G)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEE0Z45	POWER CABLE	1	
2	VEC0993	MINI XLR CABLE	1	
3	VGM2081	XLR BOX TOP-CASE	1	
4	VGM2082	XLR BOX BOTTOM CASE	1	
5	VMP8010	SLIDE SW NAME PLATE	1	
6	VMP8011	XLR NAME PLATE	1	
7	VMC1931	SPRING	1	
8	VJF1504	SHOE	1	
9	VWJ13E5045L0	FLEXIBLE CABLE	2	
10	VGQ8088	VR COVER	1	
11	VYQ3166	SLIDE TSUMAMI (L)U	2	
12	J0KG00000046	FERRITE CORE	1	
13	VGU9214	SLIDE KNOB	5	
14	VMG1460	SLIDE SW RUBBER COVER	5	
15	VGU9641	AUDIO VR KNOB	2	
16	VMP8039	BOX PCB ANGLE	1	
101	XQN26+A5FZ	SCREW	2	
102	XQN2+C2FN	SCREW	1	
103	XSS2+4FZ	SCREW	4	
104	XQN16+B3FZ	SCREW	8	
105	XQN16+B25FN	SCREW	9	
106	XQN16+BJ4FN	SCREW	1	
107	XYN26+A6FZ	SCREW	4	
E1	VEP04875A	MAIN C.B.A.	1	
E2	VEP01956A	POWER C.B.A.	1	
E3	VEP04869A	XLR C.B.A.	1	
E4	VEP04870A	SW C.B.A.	1	
E5	VEP04871A	VR C.B.A.	1	

PACKING PARTS ASSEMBLY (AG-MYA30G)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.



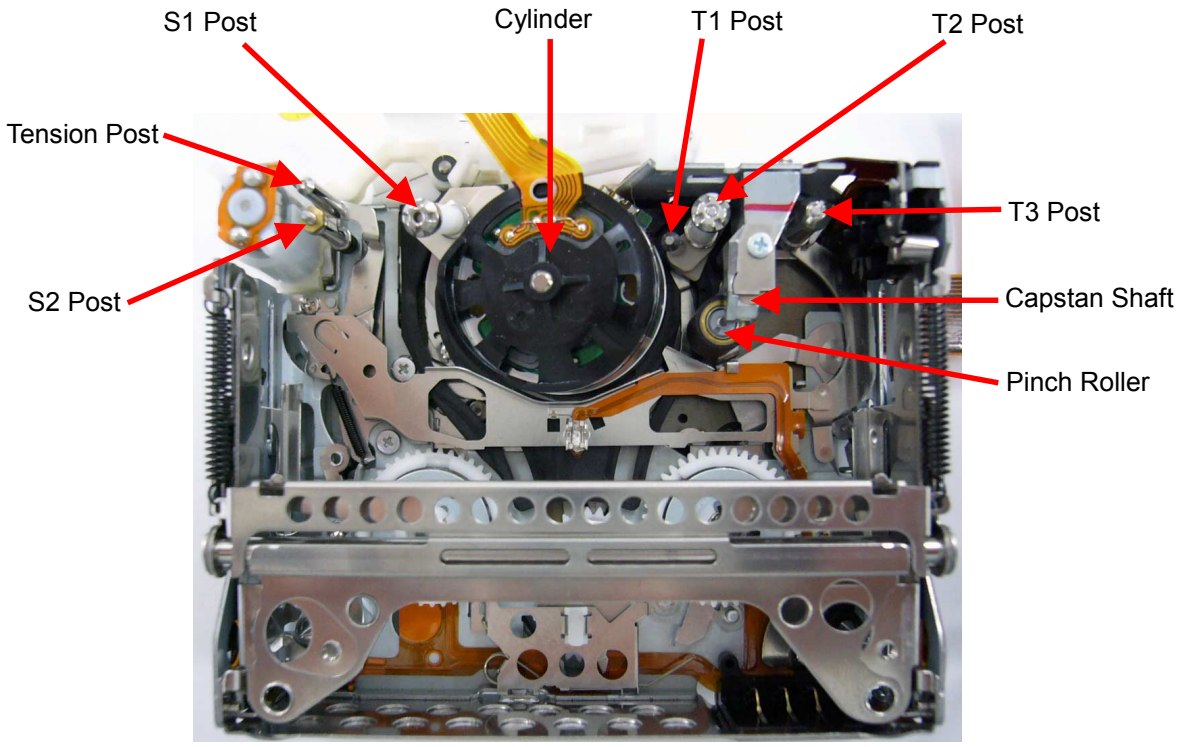
PACKING PARTS ASSEMBLY (AG-MYA30G)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0Z18	PACING CASE	1	
2	J0KG00000046	FERRITE CORE	1	
3	VPF1219	CUSHION BAG	1	
⚠ 4	VQT0K50	OPERATING INSTRUCTIONS	1	
5	VYC0870	MIC HOLDER U	1	
6	VJF1497	SIDE JACK COVER(XLR)	1	
7	VYC0920	MIC ADAPTOR U	1	
7-1	VJF0804	CABLE CLAMPER	1	
7-2	XQN2+CJ6FZ	SCREW	1	
7-3	VMG1189	RUBBER BUSH	2	
7-4	VMX2835	SPACER	2	
7-5	XSS3+6FZ	SCREW	2	
7-6	XSB4+12FXKS	SCREW	4	
8	VYQ3157	BOX HOLD ANGLE U	1	
8-1	VHD1669	BOX HOLD SCREW	1	
8-2	VMB3900	BOX SCREW SPRING	1	
8-3	VMX3416	HOLD ANGLE WASSYA UPEER	1	
8-4	VMX3417	HOLD ANGLE WASSYA LOWER	1	

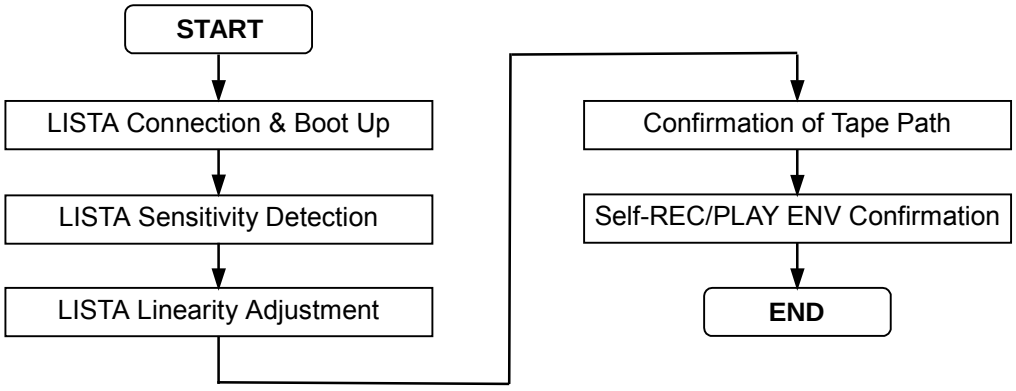
1. MECHANICAL ADJUSTMENT AND CONFIRMATION

1-1. Name of Tape Transportation



LOADING condition

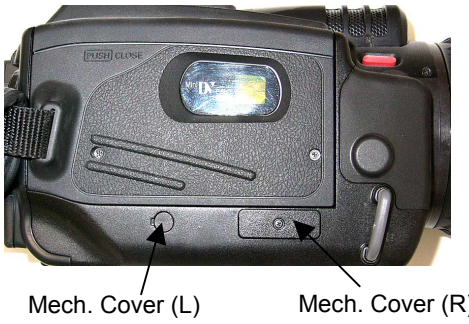
1-2. Tape Path Adjustment Procedure



1-3. Adjustment of S1 & T2 Post

LISTA linearity and Envelope waveform are adjusted by S1 and T2 post. When removing the Mech. Cover (R) and (L), which is shown in the following figure, without opening a cassette cover, it is possible to do an adjustment.

Mech. Cover (R) side: S1 Post
Mech. Cover (L) side: T2 Post



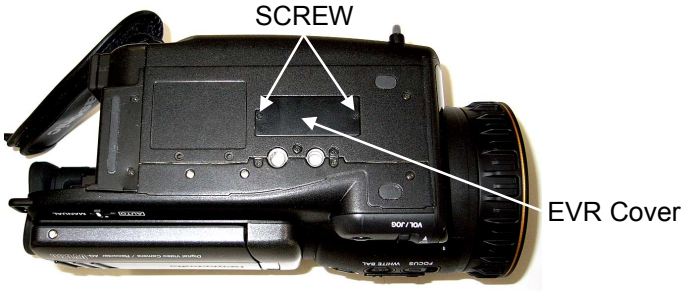
1-4. Connection of EVR Tools

To performing the confirmation of envelope (item “1-11. Self-REC/PLAY Envelope Confirmation”), the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA1128 or LSJA0310	1	For Unit
DC Cable	VJA0941	1	For Measuring Board
AC Adapter	-----	2	

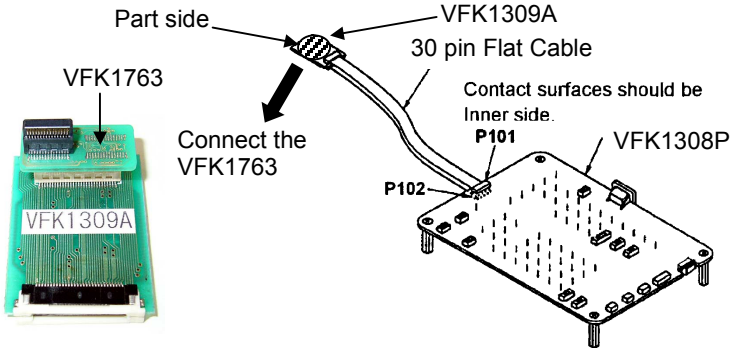
To confirm the envelope output, connect the Connection and Measuring Boards as described below.

1. Unscrew 2 screws and remove the EVR cover.



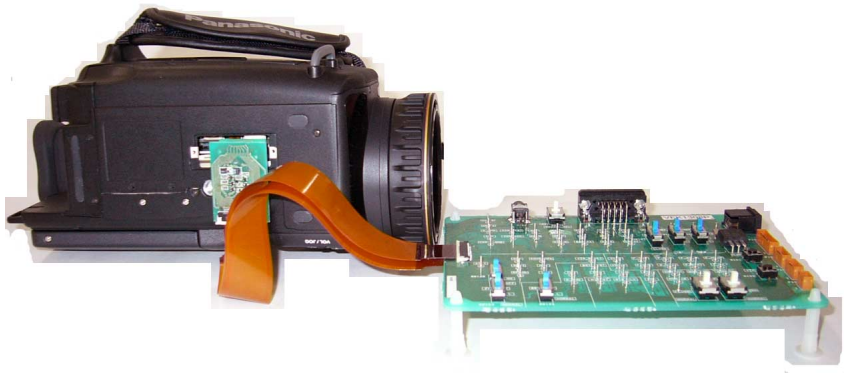
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
The unit will not work if the connector is attached backwards.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

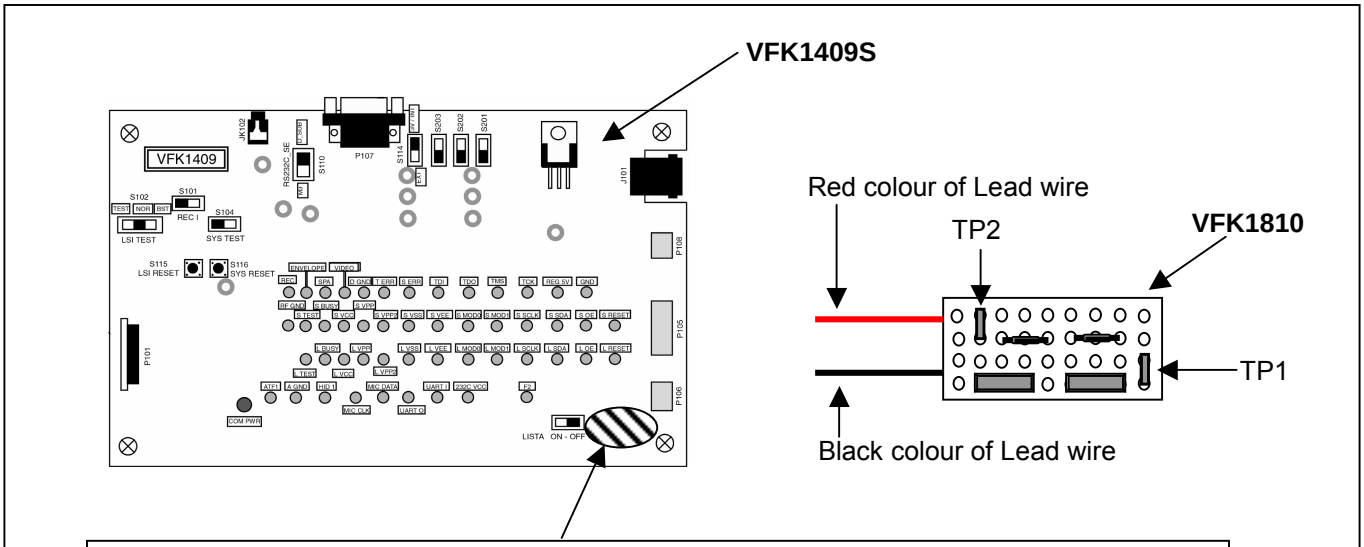
When the VFK1763 is connected the EVR connector, be careful that VFK1309A is attached in the right direction.



1-5. Connection of LISTA Adjustment System

TAPE	VFM3000EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481K (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409A (Measuring Board) ← **NOTE 2** VFK1317 (30P flat cable): 2pcs, VFK1309A (EVR connector board) ← **NOTE 1** VFK1763 (Connection Adapter), VJA0941 (DC cable): 2pcs, 9P RS232C cross cable.
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)

NOTE 1:
VFK1309 and VFK1309A can be used to perform LISTA adjustment. The VFK1309A is only required for LCD adjustment (refer to item 1 of Electrical adjustment procedure in section 4.)
NOTE 2:
If you already have VFK1409S (Measuring board), it can be used to perform LISTA adjustment with VFK1810. Please refer to next explanation for installation of VFK1409S.



1. Install the two test points of VFK1810 to through hole in this area and solder it at test point at foil side of VFK1409S to fixed VFK1810.

2. Insert the two lead wires of VFK1810 to through hole.

3. Solder the red color of lead wire to pin1 of P108 on foil side on VFK1409S.

4. Solder the black color of lead wire to pin3 of P106 on foil side on VFK1409S.

1. Set the switches on the Measuring Board as shown below.

<VFK1308P>

SW NAME& No.	Setting Position
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	L
BST TEST (SW104)	NORMAL
SW105	H
SW106	OFF
SW107	CENTER position
SW108	H
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

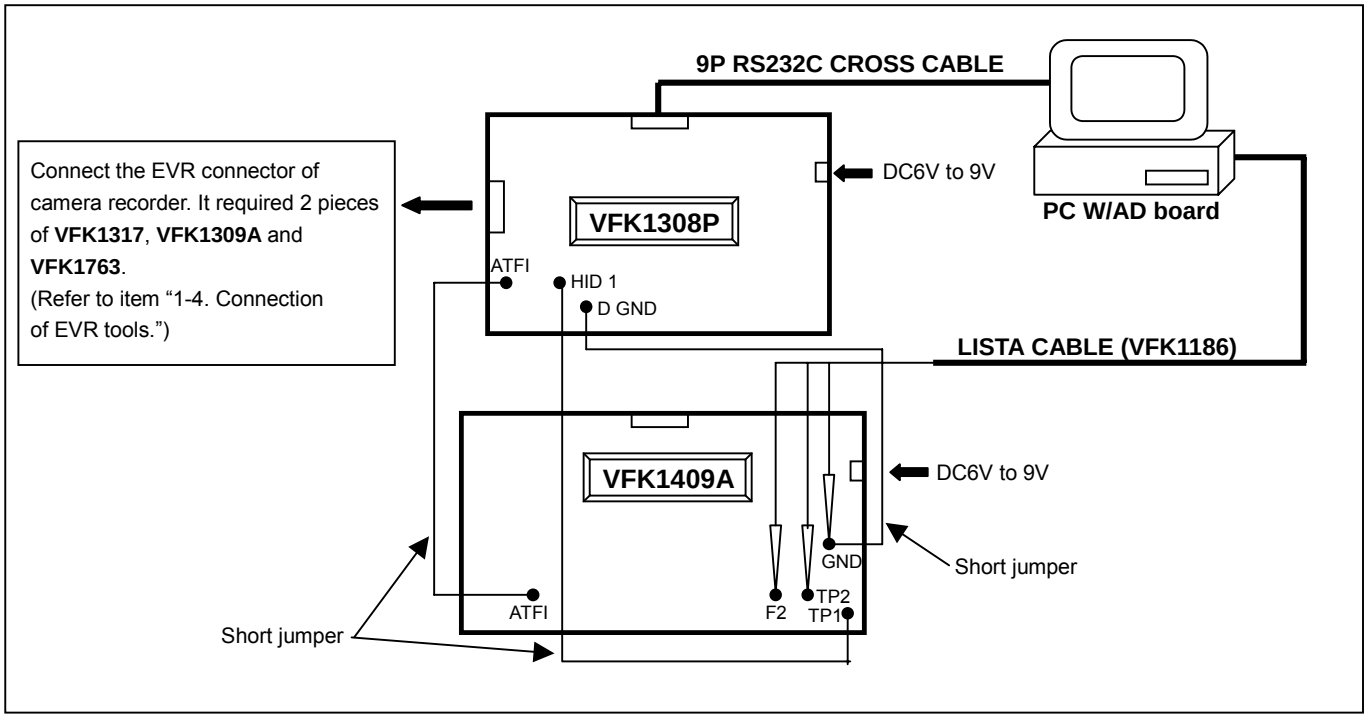
<VFK1409S or VFK1409A>

SW NAME& No.	Setting Position
RS232C SEL (S110)	D-SUB
REC I (S101)	NOR
LSI TEST (S102)	NOR
S104	NOR
S114	EXT
S201	Right side
S202	Right side
S203	Right side
LISTA ON-OFF	ON

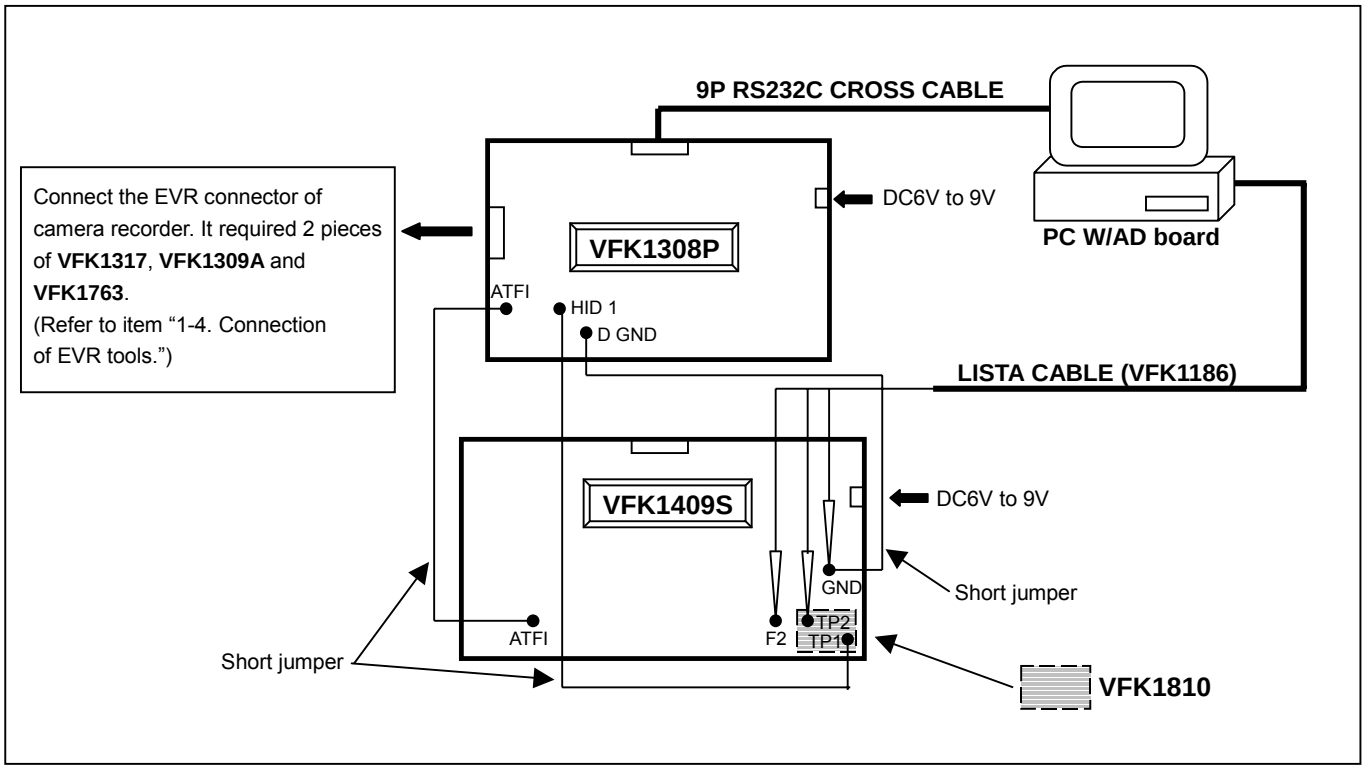
2. Connect a PC, the Measuring Board and the camera recorder as shown below.

<CONNECTION>

1) In case of use VFK1409A



2) In case of use VFK1409S



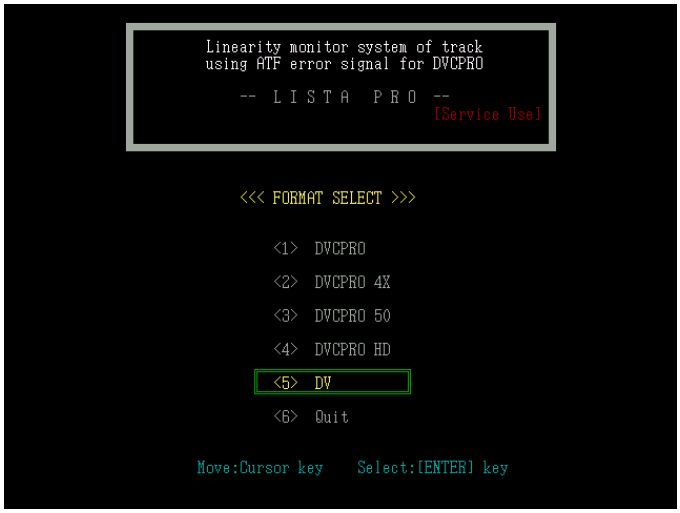
3. Connect the clips of the LISTA cable to test point on the Measuring Board. (Refer to Items **"Sensitivity Detection"** and **"Linearity Adjustment"**.)

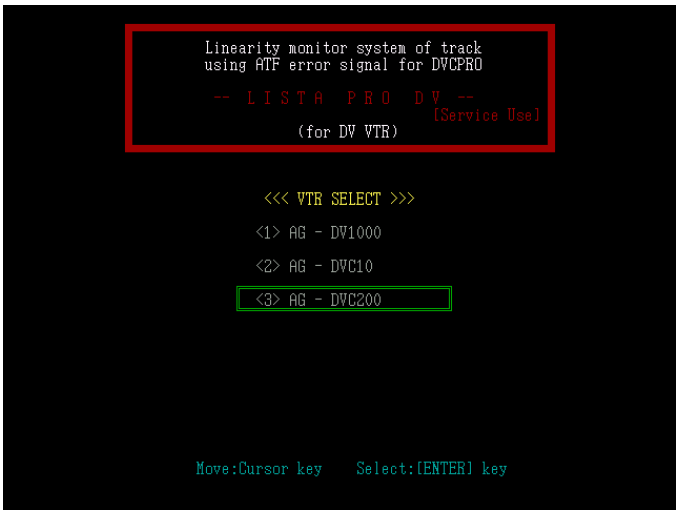
1-6. Boot up the LISTA Software

1. Boot up the LISTA software on DOS mode.

> **< How to Install and Boot Up >**
> Make a directory like C: LISTA and copy all files in the VFK1481K(LISTA Software) to it on PC.
> Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481K.

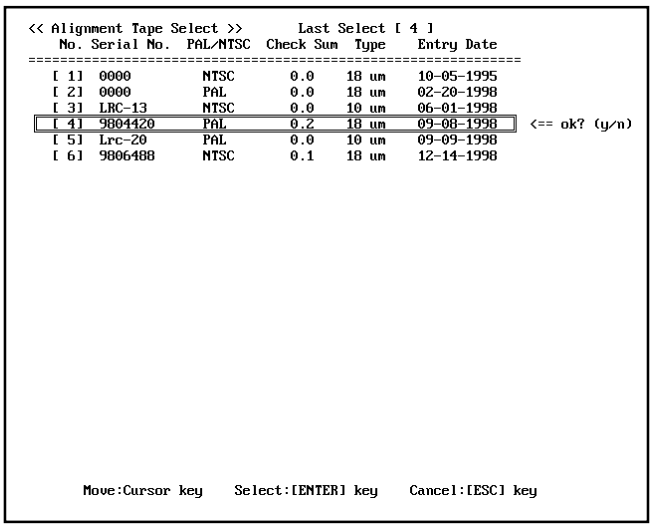
2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appears. Select the item **"DV"**. After select the format, **<<< VTR SELECT >>>** display appears, and select the model **"AG-DVC200"**.



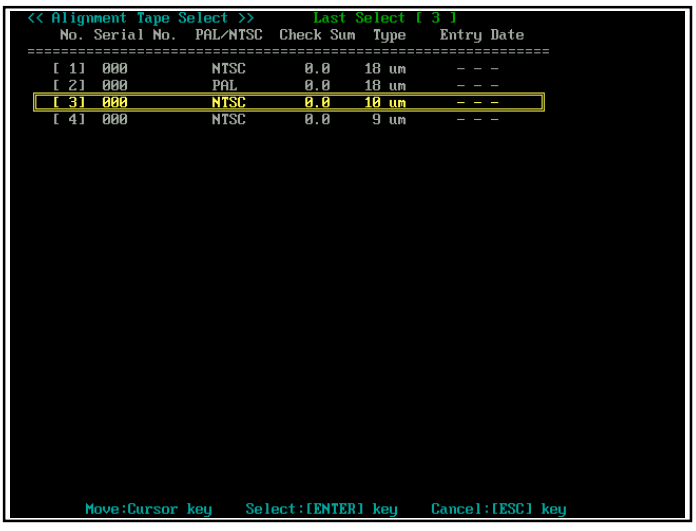


3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software is not entered with data of alignment tape, press the ESC key, then main menu is displayed on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed with alignment tape.
4. In case of LISTA software has entered data of alignment tape, select the serial number of Alignment tape, then message appears **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is displayed on screen.

< In case of Alignment Tape entered already >



< In case of Alignment Tape does not entered >



1-7. How to Enter the Alignment Tape Data

1. Select the item **"<4> Alignment Tape"** on the LISTA main menu.
2. Select the item **"<2> ENTRY"** on the alignment menu.
3. After the screen displays the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **"0"** or **"1"** for selected the PAL/NTSC. And after that enter the tape type, input **"0"** for DVCPRO, input **"1"** for DV or input **"2"** for HDLP.
4. After selecting the tape type, the frame for inputting the DATA and CHECK SUM appears on the screen. Input the numerical value in numerical order on the data sheet, which is enclosed with alignment tape. If the wrong number is inputted, the error message on the screen, then confirm that data on the sheet.
5. After the data entry, the screen returns to **"LISTA MAIN"** menu. Confirm the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10μm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

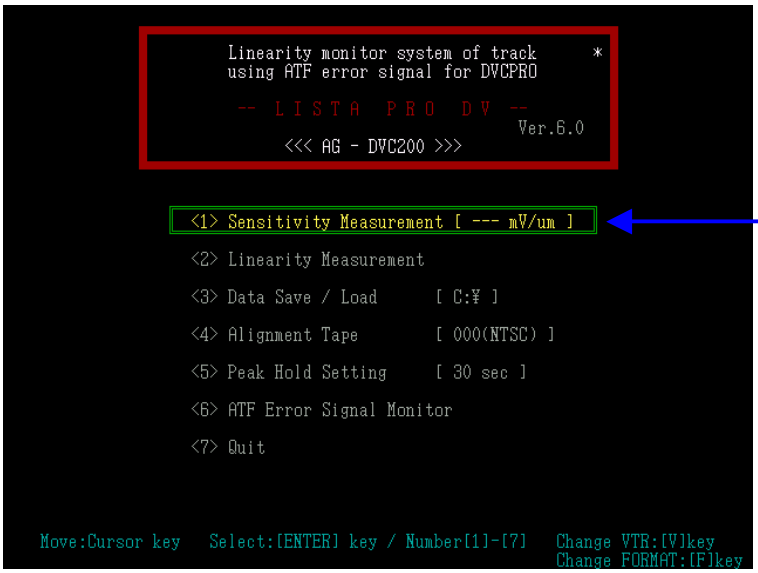
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

NOTE: This is sample only, you must enter information from your alignment tape. Each tape is different.

1-8. LISTA Sensitivity Detection

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
SPEC.	40 mV / µm to 120 mV / µm



Select at Sensitivity Detection.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **"VCR FUNCTION MENU"**.
4. Open the **"8. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"ATF GAIN"** and press the MULTI-DIAL.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **"ADJUST MENU"** screen.
8. Select item **"<1> Sensitivity Measurement"** on the LISTA main menu, and press **"ENTER"**.
9. Then the tape is played back (tape speed : 101.2%) automatically, and message **"1.2% Speed…"** appears on the screen.
10. Press the ENTER key, and then start measurement of the sensitivity value.
11. Confirm that the sensitivity value is with in specification, after the message **"<<Sensitivity Measurement Finish>>"**.

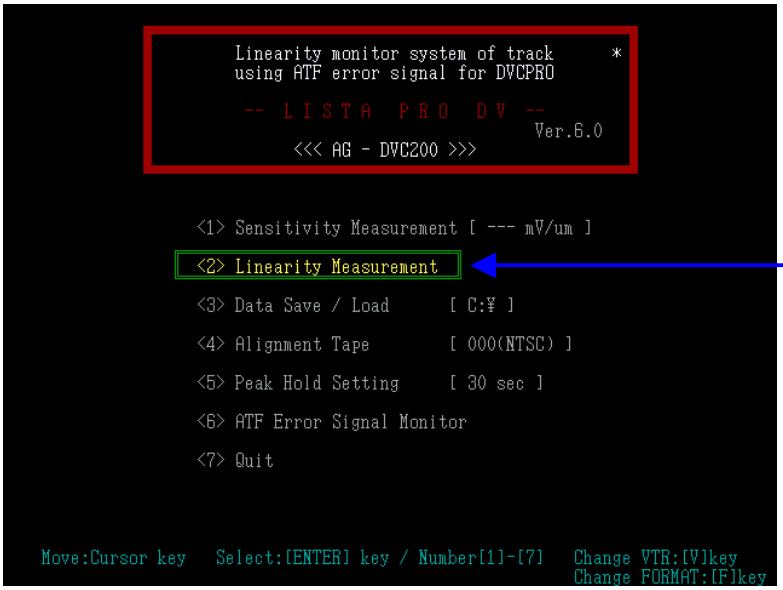
<<Sensitivity Measurement Finish>>

Sensitivity	**72.95 (mV/um)**
Sens.1	~~85.43 (mV/um)~~
Sens.1	85.48 (mV/um)

Confirm that the value of Sens.Value1 and Sens.Value2 in specification

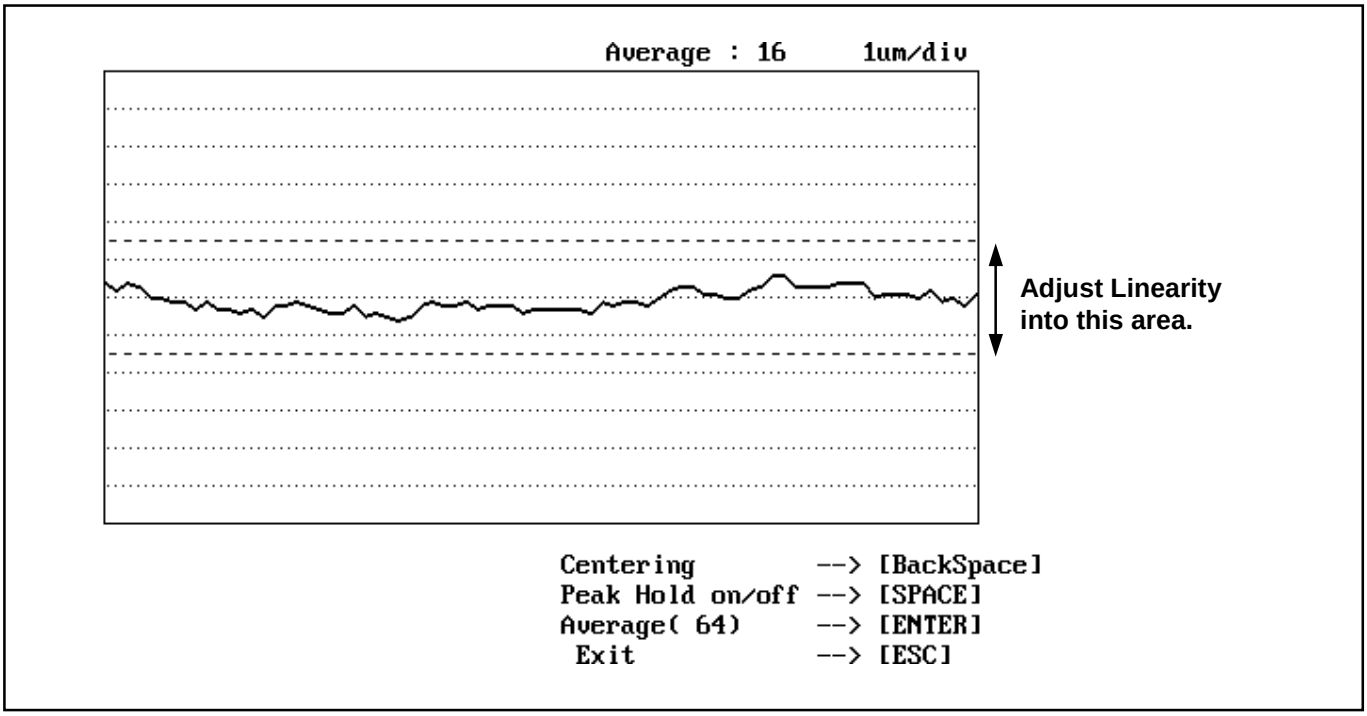
1-9. LISTA Linearity Adjustment

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1899 : Post Driver
SPEC.	Linearity : less than 3µm



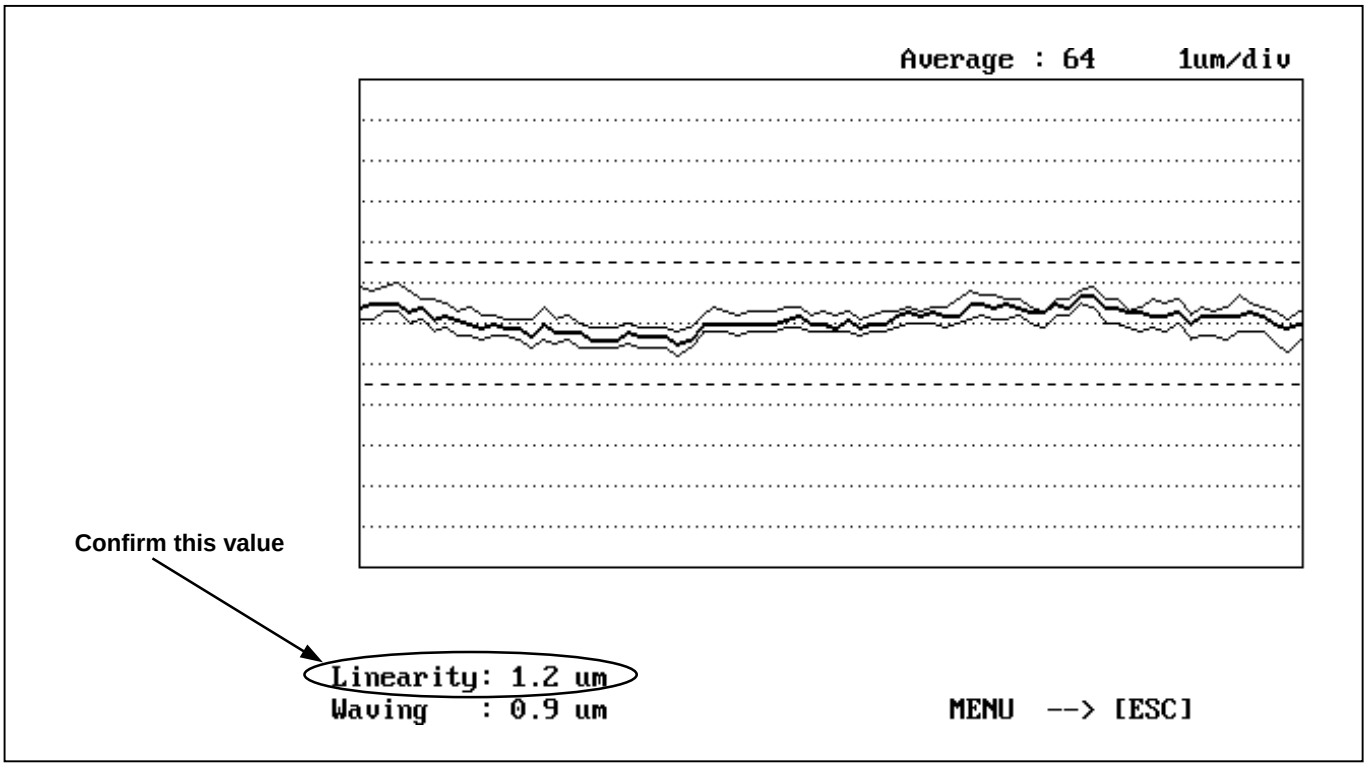
Select at Linearity Measurement.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **"VCR FUNCTION MENU"**.
4. Open the **"8. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"LINEARITY"** and press the MULTI-DIAL.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** is appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **"ADJUST MENU"** screen.
8. Select item **"<2> Linearity Measurement"** on the LISTA main menu, and press **"ENTER"**, then the Linearity Waveform appears.
9. When the waveform as shown in figure below is displayed on the screen, press the **"BS (Back Space)"** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is becomes flat as possible, and it should be within specification.
   (Adjust linearity waveform in the red dot line on the screen.)



POINT :
The left side of the waveform (entrance side) is adjusted by the height of S1 post and the right side of the waveform (exit side) is adjusted by the height of T2 post.
When the post driver is removed from upper part of post, linearity waveform is changed.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of the linearity waveform has not changed.

10. Press **"SPACE"** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finishing the Peak Hold, press **"SHIFT"** and **" } "** key simultaneously on the Key Board, then the numerical values of **"Linearity"** and **"Waving"** is displayed on left lower portion of screen. And confirm the numerical value of **"Linearity"** is in the specification. If the **"Linearity"** is out of specification, adjust height of S1 and T1 post.
12. After this measurement is finished, press the ESC key to return to the main menu.

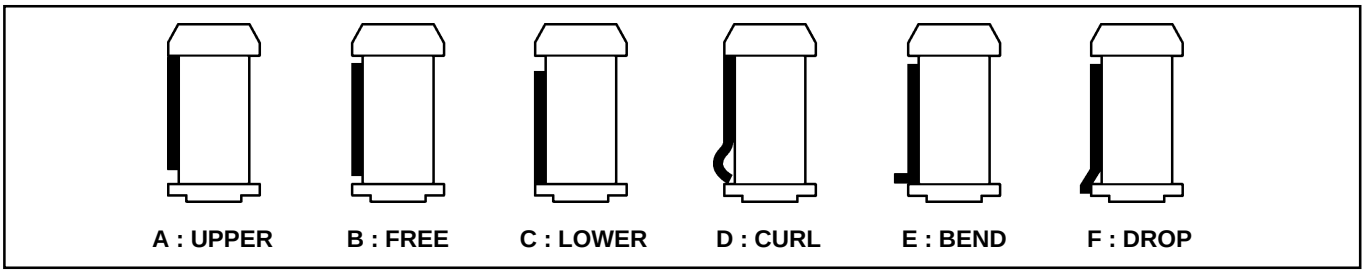


1-10. Tape Pass Confirmation

1. Play back the Blank tape and confirm that the tape passes without curling at the upper and lower guides of the following posts in the Play modes as shown in below table.

NOTE: The tape pass can not be confirm when the mechanism unit is install in unit. Connect the mechanism unit by the extender cable and confirmed.

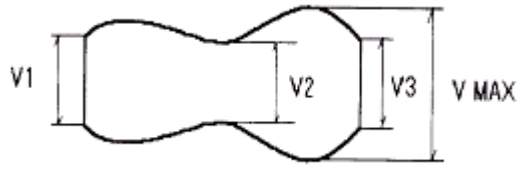
Post Name	Tape limit (refer to figure)					
	A	B	C	D	E	F
S1 post	NG	NG	OK	NG	NG	NG
S2 post	OK	OK	NG	NG	NG	NG
T2 post	OK	NG	NG	NG	NG	NG
T3 post	NG	OK	OK	NG	NG	NG



2. Confirm that the tape damage does not occur on tape at S1, T1 and T2 post by loading and unloading.
3. If curl and tape damage occurred at S1 and T2 post, adjust height of post by post driver.

1-11. Self-REC/PLAY Envelope Waveform Confirmation

1. Connect the EVR tools (refer to item ”1-4. Connection of EVR Tools”).
2. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board (VFK1308P).
3. Record a color bar signal.
4. Play back the just recorded portion and confirm that the envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

Make as flat as possible

5. Confirm that the envelope is within the following specification, when the mode is changed as follows.
   STOP→PLAY: Envelope appears completely within 2 seconds and stable.
   REV→PLAY : Envelope appears completely within 2 seconds.
6. Confirm that the shape of envelope is diamond style.
7. If it is out of the specification, adjust height of the S1 and T2 Post.

2. MECHANICAL PARTS REPLACEMENT PROCEDURE

2-1. Cleaning Roller Unit

(Removal)

1. Remove the Mechanism Unit.
2. Unhook the hooking portion (C) of Cleaning Roller Unit to remove fixed Flexible cable.
3. Unscrew the 2 screws (A) and (B), then remove the Cleaning Roller Unit.

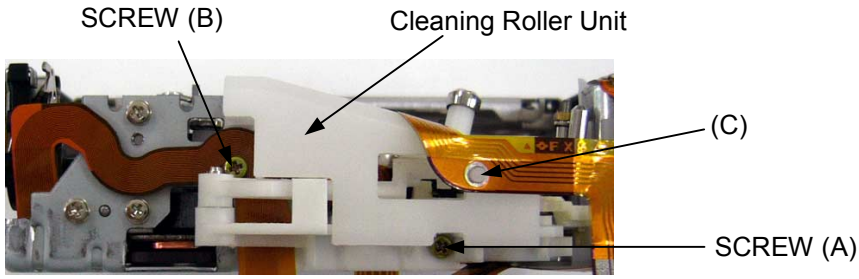


Figure A

(Installation)

1. Hook the portion (B) of Cleaning Roller Unit to portion (A) of Mechanism Chassis and install the Cleaning Roller Unit. Then be careful the Release Arm does not run onto the part at end of sub chassis (C) as shown in figure B.

NOTE: Supply the voltage to loading motor and the Cleaning Roller Unit is installed in the mechanical position as shown in figure (B) to simple installation (No problem it installation in loading complete position).

2. Tighten the Screw (A) and (B) as shown in figure A. When tighten the screw (B), flexible cable also tighten up together as shown in figure A.
3. The projection (C) of Cleaning Roller Unit should be matched to the hole of the flexible cable as shown in figure A.

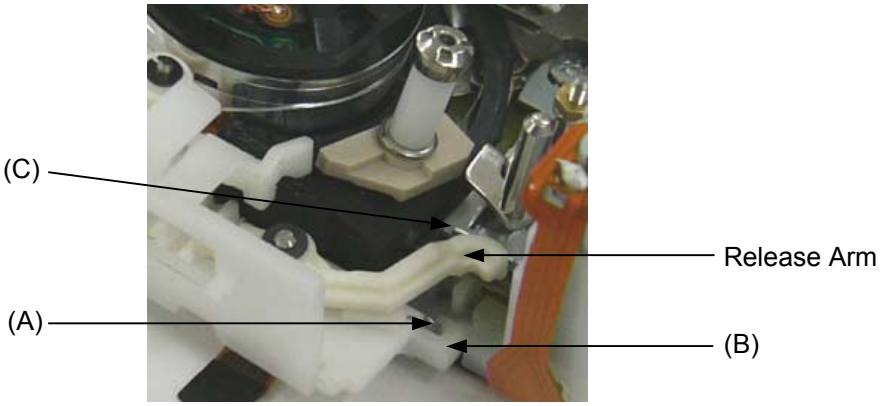


Figure B

(Confirmation of Operation)

1. To confirm that the Cleaning Roller operates normally on the Mechanism Unit, supply the voltage to loading motor and confirm that the Cleaning Roller touches the Cylinder in loading operation.
2. To confirm that the Cleaning Roller operates normally after the Mechanism Unit is installed to Unit, remove the Mech. Cover (R) on Cassette Cover to confirm the Cleaning Roller in window as shown in figure (C). Insert the cassette tape to Unit and confirm that the Cleaning Roller touches the Cylinder in loading operation.



Figure C

SECTION 1

SERVICE INFORMATION

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   2-2. Cleaning of Tape Transport Part INF-4
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4. LITHIUM BATTERY INF-6
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8. CIRCUIT BOARD LAYOUT INF-18

1. SERVICING FIXTURES AND TOOLS

The following servicing tools are required for mechanical and electrical servicing and alignment.

The items marked **"NEW"** in the following list are necessary for the AG-DVC30/32/33.

Please refer to **"Y"** and **"N"** in column of table below, which tools required for servicing the NTSC and PAL model.

Please refer to **"Y"** in column of table below, these tools were also use for servicing the AG-DVX100/A and AG-DVC180/A.

1-1. Summary Table of Servicing Fixtures and Tools

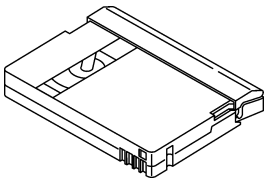
No	Parts No.	NAME	NTSC Model	PAL Model	AG-DVX100/A AG-DVC180/A	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	Y	
2	VFM3110EDS	DV Alignment Tape (Color bar)	N	Y	Y	
3	VFM3000EDS	DV Alignment Tape (Linearity)	Y	Y	Y	
4	VFK1217	Tape End/Beg Detect Cassette	Y	Y	Y	
5	*VFK1908	EVR Adjustment Software	Y	N	N	**NEW** Download from the WEB site.
6	*VFK1909	EVR Adjustment Software	N	Y	N	**NEW** Download from the WEB site.
7	*VFK1481K	LISTA Software	Y	Y	Y	Download from the WEB site.
8	VFK1308P	Measuring Board	Y	Y	Y	
9	VFK1309A	EVR Connector Board	Y	Y	Y	**NOTE 1**
10	VFK1763	Connector Adapter	Y	Y	N	60-30pin
11	VJA0941	DC Cable	Y	Y	Y	2 pieces Required
12	VFK1317	30pin Flat Cable	Y	Y	Y	2 pieces Required
13	VFK1164TAR43	43mm Attachment Ring	Y	Y	Y	
14	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Y	
15	VFK1345	CC Filter Holder	Y	Y	Y	
16	VFK1346	Step Down Ring	Y	Y	Y	
17	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	Y	
18	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	Y	
19	VFK1341	CC Filter (LB40)	Y	N	Y	
20	VFK1342	CC Filter (LB80)	N	Y	Y	
21	VFK1347	CC Filter (LB120)	Y	Y	Y	
22	VFK1884	CC Filter (LBA2)	Y	Y	Y	
23	VFK1888	CC Filter (LBB6)	Y	Y	Y	
24	VFK1885	CC Filter (LBB2)	Y	N	Y	
25	VFK1886	CC Filter (CC C10)	N	Y	Y	
26	VFK1887	CC Filter (CC C20)	N	Y	Y	
27	VFK1409A	Measuring Board	Y	Y	Y	**NOTE 2**
28	VFK1899	Post Driver	Y	Y	N	**NEW, NOTE 3**
29	VFK1810	LISTA Measuring Board	Y	Y	Y	**NOTE 2**
30	VFK1186	LISTA Cable	Y	Y	Y	
31	VFK1300	A/D Converter Board	Y	Y	Y	ISA PC Board.

NOTE:

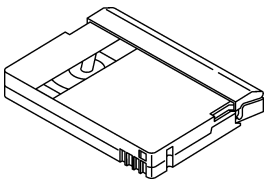
1. If you already have VFK1309, it can be modified to VFK1309A. (Refer to item "1-1. Modification procedure of VFK1309" on page ELE-1 in section 4.)
2. If you already have VFK1409S, it can be used for LISTA adjustment with VFK1810 instead of VFK1409A. (Refer to item "1-5. Connection of LISTA Adjustment system" on page MECH-3 in section 3.)
3. This Post Driver use for servicing the "A" mechanism of consumer model.

1 **VFM3010EDS**

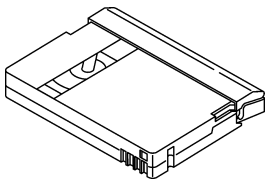
2 **VFM3110EDS**
DV Alignment Tape
(Color bar)



3 **VFM3000EDS**
DV Alignment Tape
(Linearity)



4 **VFK1217**
Tape End / Beg. Detect
Cassette



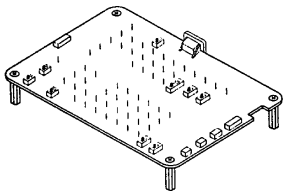
5 **VFK1908**

6 **VFK1909**
EVR Adjustment Software

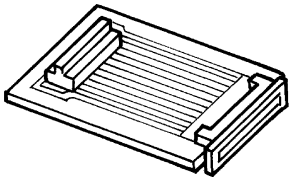
7 **VFK1481K**
LISTA Software

DOWN LOAD

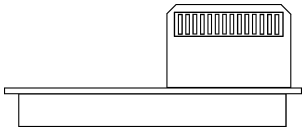
8 **VFK1308P**
Measuring Board



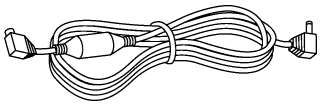
9 **VFK1309A**
EVR Connector Board



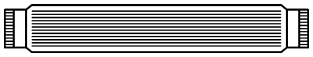
10 **VFK1763**
Connector Adapter



11 **VJA0941**
DC Cable

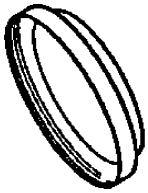


12 **VFK1317**
30pin Flat Cable

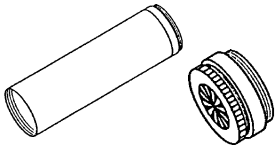


(In case of using VFK1308P, required 2pcs. of this cable)

13 **VFK1164TAR43**
43 mm Attachment Ring



14 **VFK1164TCM01**
Collimator Set
(Infinity Lens)



15 **VFK1345**
CC Filter Holder

16 **VFK1346**
Step Down Ring



VFK1345 VFK1346

17 **VFK1659**
Step-up Ring (43mm 49mm)

18 **VFK1660**
Step-up Ring (49mm 62mm)



VFK1659

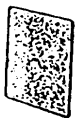
VFK1660

19 **VFK1341** (LB40)

20 **VFK1342** (LB80)

21 **VFK1347** (LB120)

CC Filter



22 **VFK1884** (LBA2)

23 **VFK1888** (LBB6)

24 **VFK1885** (LBB2)

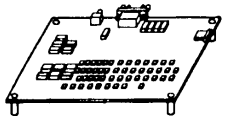
25 **VFK1886** (CC C10)

26 **VFK1887** (CC C20)

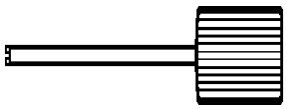
CC Filter



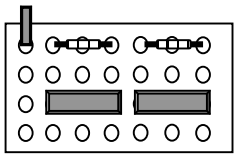
27 **VFK1409A**
Measuring Board



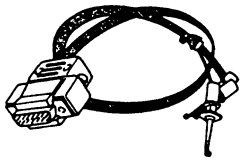
28 **VFK1899**
Post Driver



29 **VFK1810**
LISTA Measuring Board



30 **VFK1186**
LISTA Cable



31 **VFK1300**
A/D Converter Board



To determine which servicing fixtures and tools are required for each adjustment, refer to the following table.

No.	Parts No.	NAME	ADJUSTMENT ITEM
1	VFM3010EDS	DV Alignment Tape (Color bar)	7-2. PG shifter Adjustment (SEC.4)
2	VFM3110EDS	DV Alignment Tape (Color bar)	
3	VFM3000EDS	DV Alignment Tape (Linearity)	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
4	VFK1217	Tape End/Beg Detect Cassette	7-1. Sensitivity adj. of Tape sensors Adjustment (SEC.4)
5	VFK1908	EVR Adjustment Software	4. EEPROM (SEC.4)
6	VFK1909		5. ZOOM SW Center Value Adjustment (SEC.4)
			6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
7	VFK1481K	LISTA Software	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
8	VFK1308P	Measuring Board	5-2. Adjust Menu (SEC.1)
9	VFK1309A	EVR Connector Board	1-8. LISTA Sensitivity Detection (SEC.3)
10	VFK1763	Connection Adapter	1-9. LISTA Linearity Adjustment (SEC.3)
11	VJA0941	DC Cable	1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
12	VFK1317	30pin Flat Cable	4. EEPROM (SEC.4)
			5. ZOOM SW Center Value Adjustment (SEC.4)
			6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
13	VFK1164TAR43	43mm Attachment Ring	6-6. Zoom Tracking Adjustment (SEC.4)
14	VFK1164TCM01	Collimator Set (Infinity Lens)	
15	VFK1345	CC Filter Holder	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
16	VFK1346	Step Down Ring	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
17	VFK1659	Step-Up Ring (43mm-49mm)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
18	VFK1660	Step-Up Ring (49mm-62mm)	
19	VFK1341	CC Filter (LB40)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
20	VFK1342	CC Filter (LB80)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
21	VFK1347	CC Filter (LB120)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
			6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
22	VFK1884	CC Filter (LBA2)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
23	VFK1888	CC Filter (LBB6)	
24	VFK1885	CC Filter (LBB2)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
25	VFK1886	CC Filter (CC C10)	
26	VFK1887	CC Filter (CC C20)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
27	VFK1409A	Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3)
			1-9. LISTA Linearity Adjustment (SEC.3)
28	VFK1899	Post Driver	1-9. LISTA Linearity Adjustment (SEC.3)
			1-10. Tape Path Confirmation (SEC.3)
			1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
29	VFK1810	LISTA Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3)
30	VFK1186	LISTA Cable	1-9. LISTA Linearity Adjustment (SEC.3)
31	VFK1300	A/D Converter Board	

2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms have parts which will wear, and their wear and deterioration cause troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

The maintenance schedule requires replacement of mechanism unit, which contains a cylinder unit and so on.

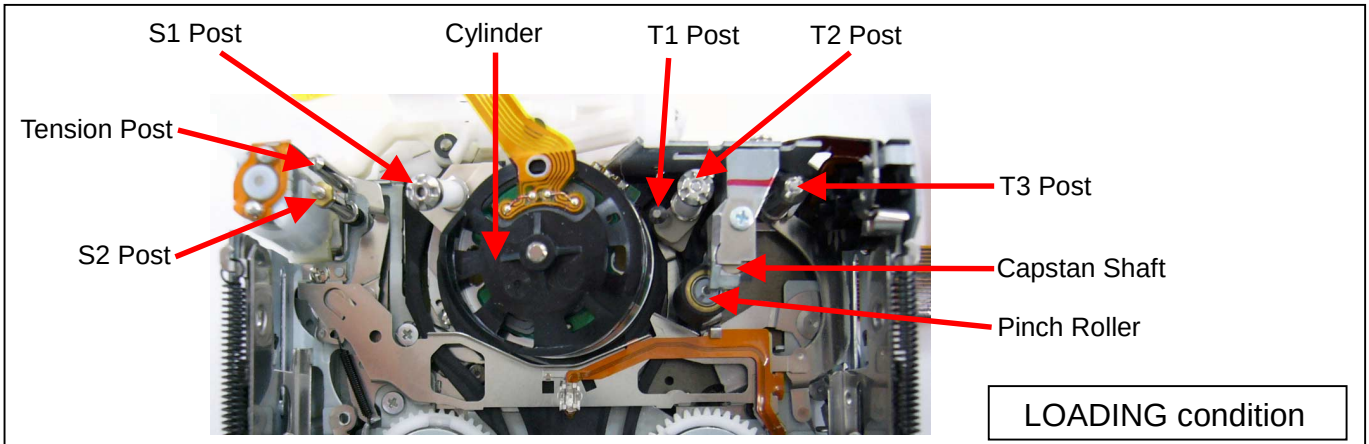
2-1. Maintenance Schedule

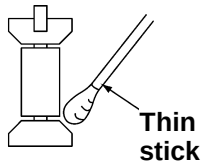
No.	Part Name	Part No.	Cleaning	Replacement	Remark
---	Tape Transport Part	------	100 hours	------	*1
1	Mechanism Chassis Unit	VXY1843	------	Every 2000 hours	*2

Note:
Hours of use are based on the head rotation hours. (Head rotation hours can be confirm on item DRUM RUN in DIAGNOSTIC menu.)
Hours of use are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.
Hours of use are listed as the reference of maintenance. They do not mean guarantee hours.
HOUR METER can be reset on ADJUST menu (Refer to item “5-2-4. Hour Meter Reset and LOG clear” in this section.)
*1. Tape Transport part is cleaned by cleaning liquid.
*2. Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

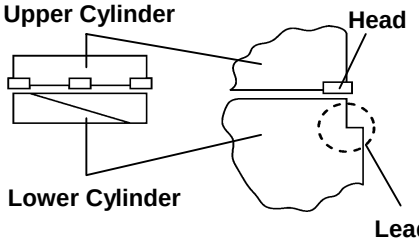
2-2. Cleaning of Tape Transport Part

Please clean the below indicated tape transport parts with cleaning liquid when needed.
(Tension Post, S1 Post, Cylinder & Heads, T1 Post, T2 Post, T3 Post, Capstan Shaft and Pinch Roller)





When cleaning the post, wrap a cloth on a pick. Wipe each post with a cloth dipped in cleaning liquid. And wipe it again with dry cloth.



Do not forget cleaning the upper Cylinder, Head, tape transport part of Lower Cylinder and Lead, when cleaning the Cylinder.

3. MANUAL TAPE EJECT (EMERGENCY EJECT)

When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

NOTE: By below indicated method, The unit will not take up tape slack. Be careful when removing the tape from Cassette Holder.

1. Remove the Mech. Cover (R).



2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.



UNLOADING.....A: +4.5V B: GND
LOADING.....A: GND B: +4.5V

3. Stop supplying the power when the tape is ejected and remove the tape from Cassette Holder.

<How to rolls up tape>

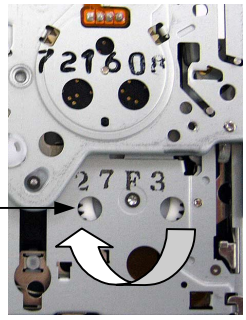
Be sure to take up the tape slack so that tape does not become damaged.

1. Remove the Mechanism Unit.
2. Supply 4.5 Volts to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If power is supplied too long, then the Cassette tape will be ejected prematurely.

4. Turn the Gear of Supply Reel as shown in figure, and this will take up the slack in the tape.
5. Supply 4.5 Volts again to eject the tape using the motor and remove the tape from Cassette Holder.

Turn this Gear with the tip of a tweezers.



(Bottom side of Mechanism)

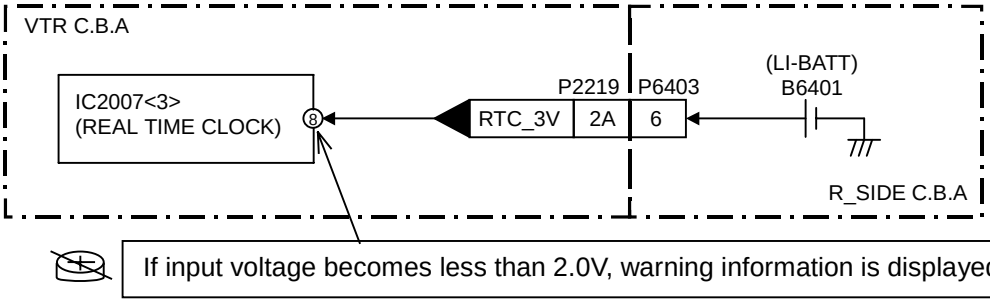
4. LITHIUM BATTERY

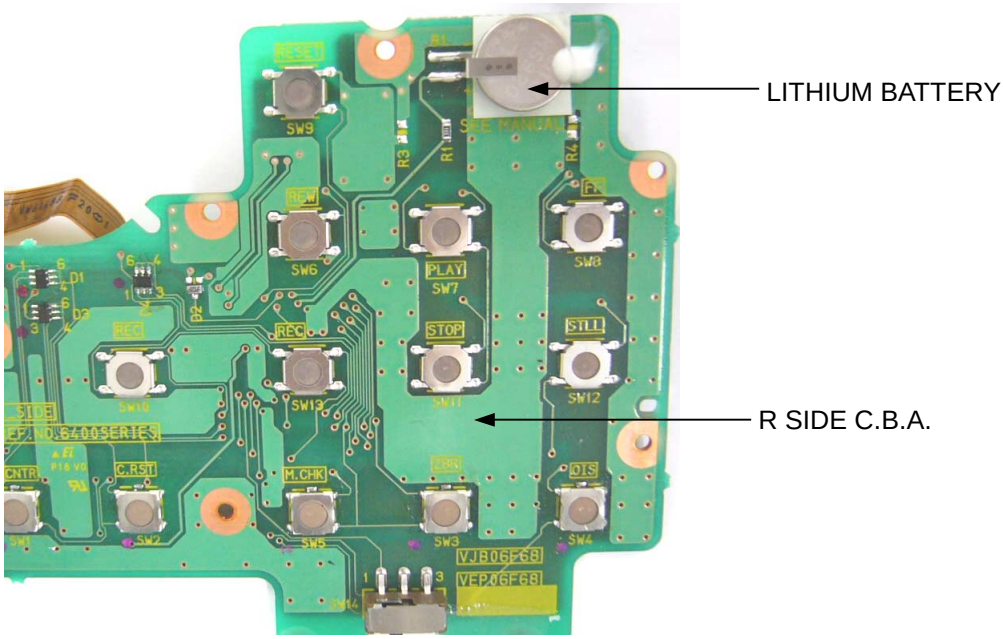
4-1. Replacement Procedure

1. There is a Lithium battery on the R_SIDE C.B.A..
2. Unsolder the Lithium battery “Ref No: B6401/Part No: VSB0407” and then replace with the new one.

<INFORMATION>

The lithium battery is not rechargeable and may be discharged.





NOTE:

The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

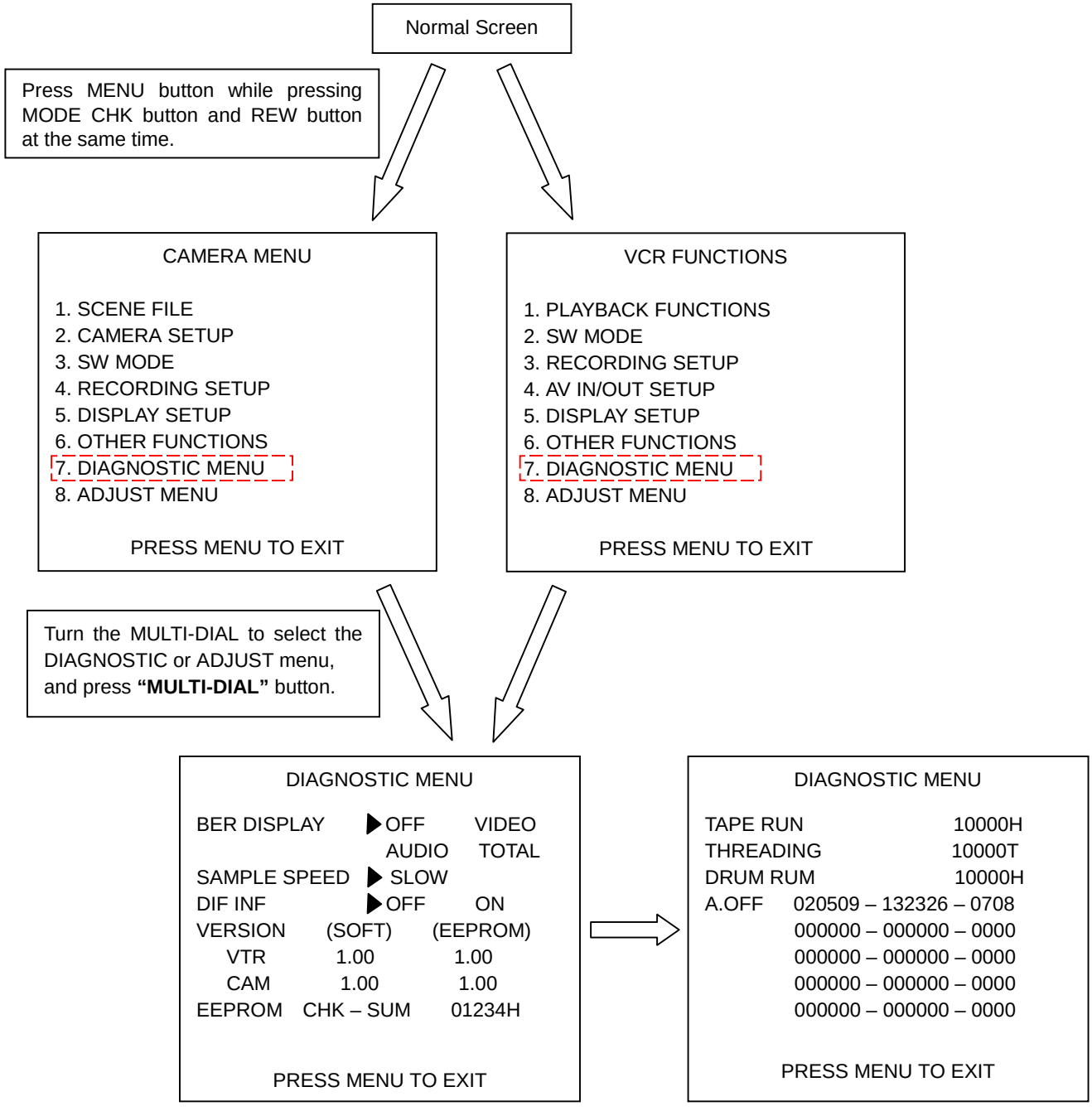
CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture’s instructions.

5. SERVICE MENU

The DIAGNOSTIC and ADJUST menu can be displayed as follows.

Press and hold the **"MENU button"**. Press and hold the **"MODE CHK button"** and **"REW button"** at the same time, DIAGNOSTIC and ADJUST menu can be displayed.
Next, turn the **"MULTI-DIAL"** to select the DIAGNOSTIC or ADJUST menu, and press **"MULTI-DIAL"** button to open the DIAGNOSTIC or ADJUST menu.
NOTE: Another way to display the "DIAG" and "ADJUST" menu when you use the EVR tools is to place the VTR test SW on the VFK1308P to the L position. See item 5-2-1 how to connect the EVR tools, on page INF-12.

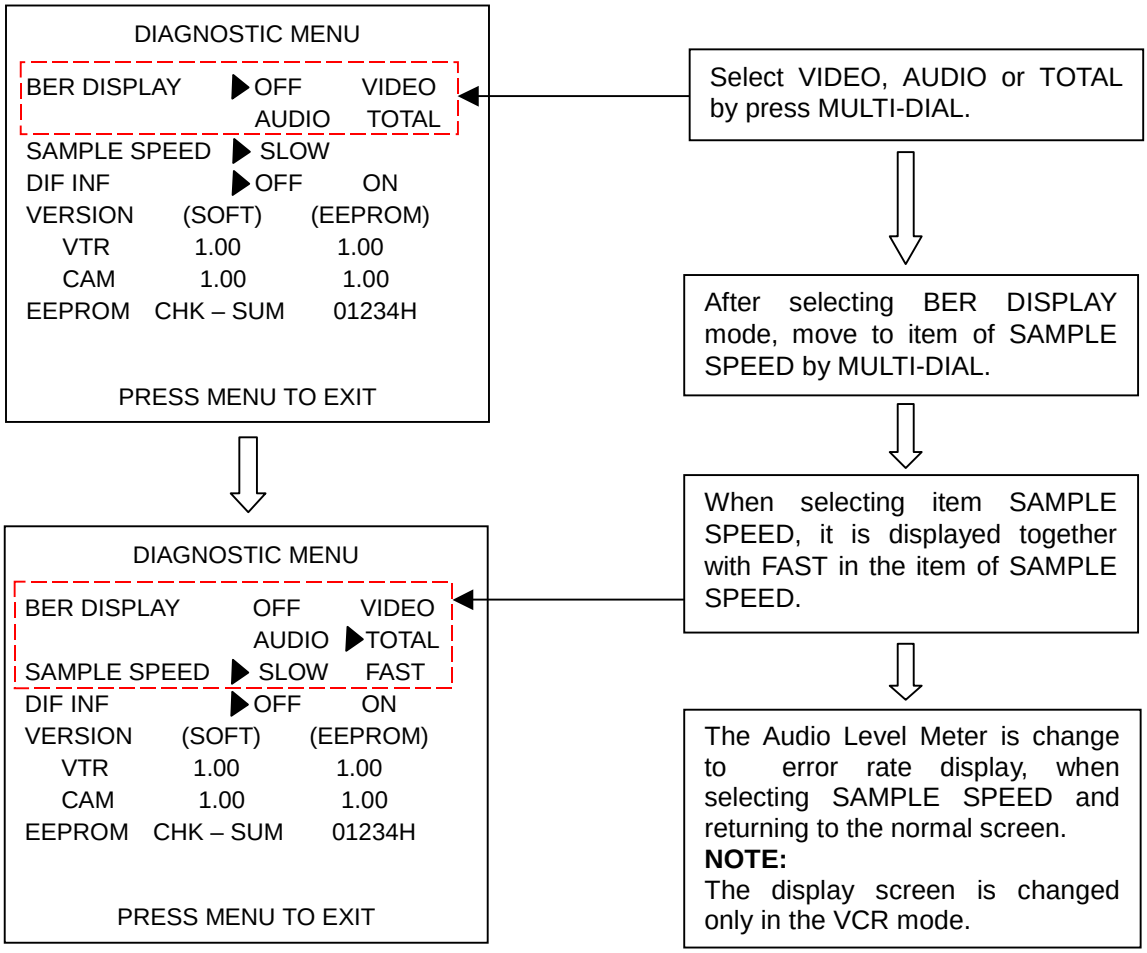


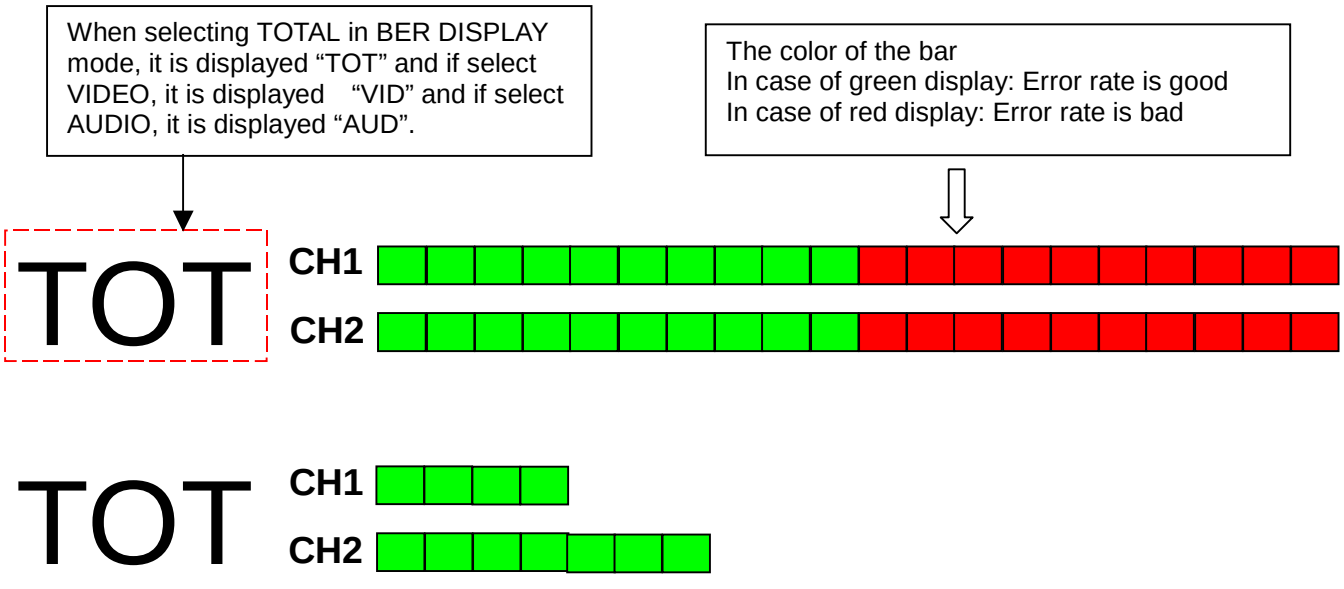
5-1. Diagnostic Menu

The DIAGNOSTIC menu is the menu to confirm the condition of the VCR and it is possible to do the confirmation of the error rate, software version, auto off log and DIF status.

5-1-1. How to display the Error Rate.

This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.

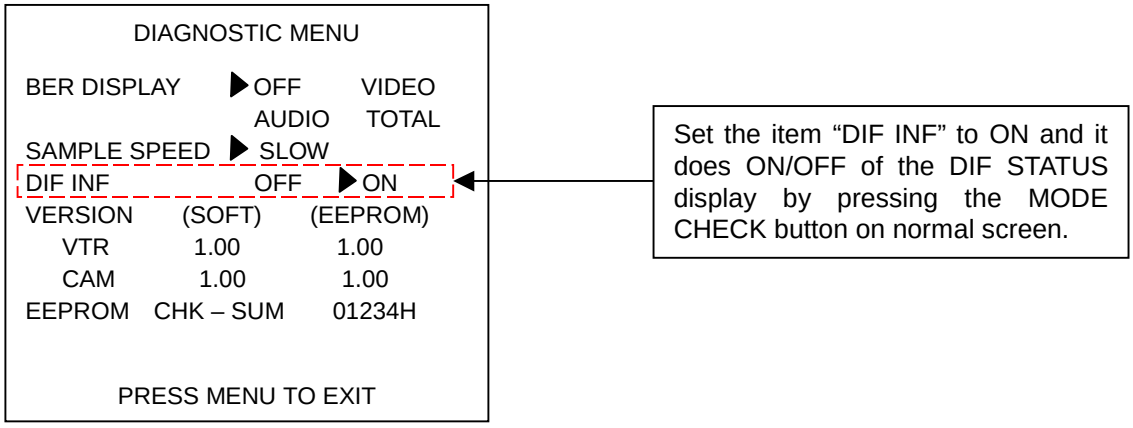




How to confirm the Error rate.

1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 bars or less. The less bars displayed the better the error rate.

5-1-2. DIF STATUS Display.



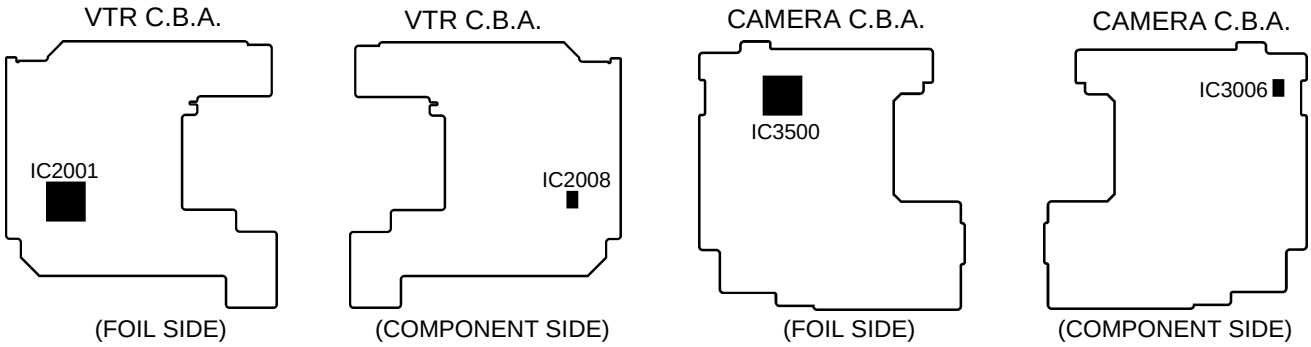
The displayed contents are as follows.

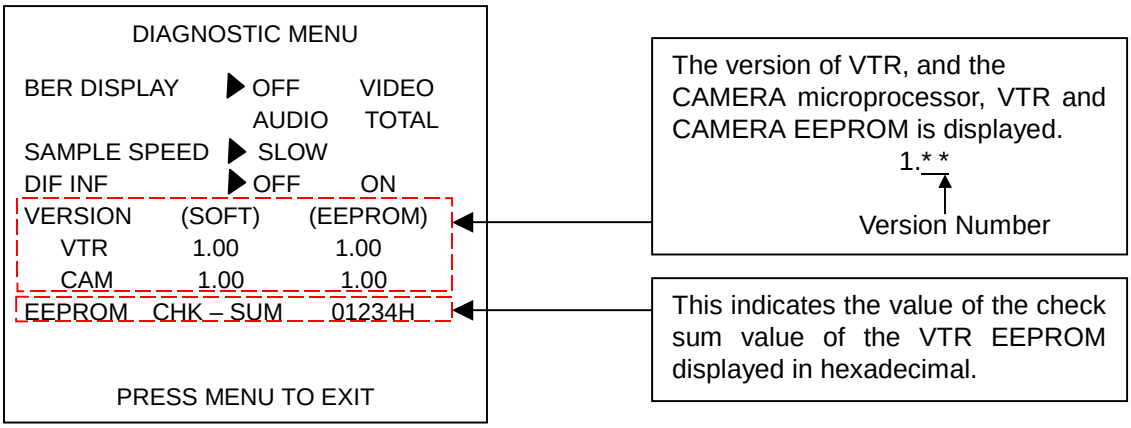
Items	Description	Remark
NODECNT	Number of NODE connections.	
MY_ID	NODE ID of this unit.	
ROOT_ID	ROOT ID	
IRM_ID	PHY ID of IRM	IRM(Isochronous Resonance Manager)
IN_CH	Input channel number of Isochronous data.	
OUT_CH	Output channel number of Isochronous data.	
DIF MODE	DIF mode	
RX_IN	Received condition of Isochronous data.	
O_BBC	Transmitted condition of Isochronous data.	
STYPE	Type of VIDEO signal	
FIELD	NTSC/PAL	
IN_SPD	Speed of Isochronous data.	OUT_SPD in CAMERA MODE
UID	USER ID of 1394 equipment	
AS	Source pack of AUDIO	
ASC	Source control pack of AUDIO	
VS	Source pack of VIDEO	
VSC	Source control pack of VIDEO	
HEADER	HEADER pack	

5-1-3. Software Version Display.

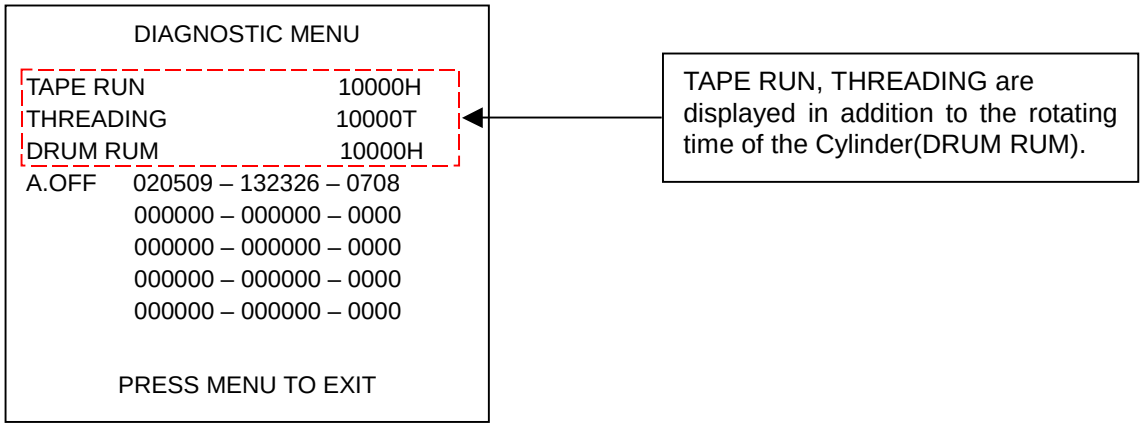
This unit have two pieces of microprocessor and two pieces of EEPROM

---	Camera board	VTR board
Microprocessor	IC3500	IC2001
EEPROM	IC3006	IC2008





5-1-4. Hour Meter Display.

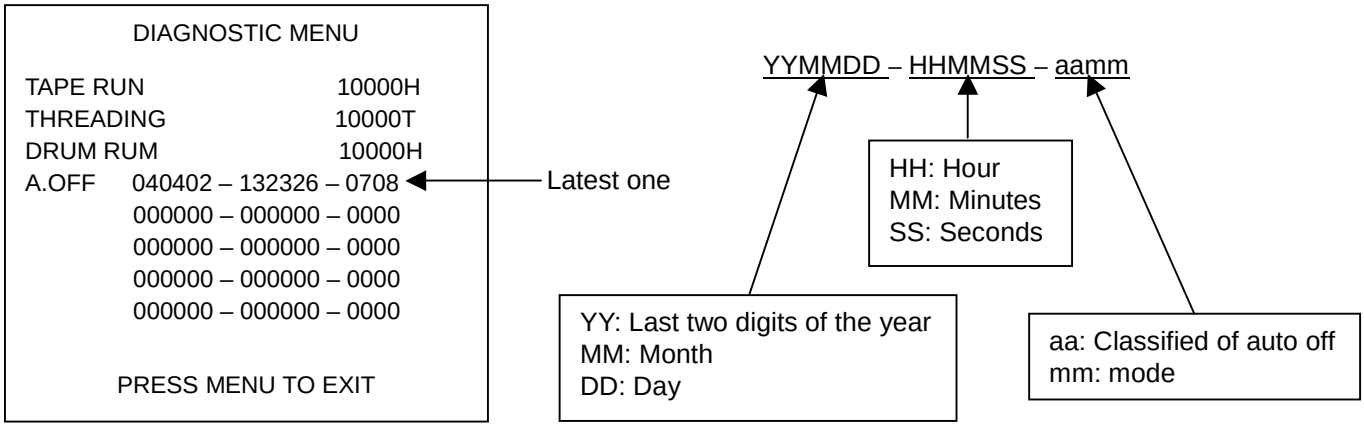


ITEM	Display Data	Description
TAPE RUN	00000H – 99999H	It displays the time that the tape is running in units of hours.
THREADING	00000T – 99999T	It displays the number of times the tape is inserted.
DRUM RUN	00000H – 99999H	It displays the time that the cylinder is rotating in units of hours. It displays same time as in the item HOUR METER of OTHER FUNCTION menu.

5-1-5. Auto Off Log

The VCR can display warning and auto off as alarm display. If case of the auto off occurs, the number and message are displayed in the normal screen. Contents of auto off can be confirm until previous 5 problem in diagnostic menu.

When auto off occurs, VCR memorizes date, time, classified of auto off and mode follow as indicated in format below. Diagnostic menu can display only 5 problems.



For example, in case of displayed “040402–132326–0708”, Cylinder Lock occurred in normal playback mode at 13:23:26 on April 2th in 2004.
Please refer to below indicated “auto off” and “mode” tables.

< aa: Classified of AUTO OFF >

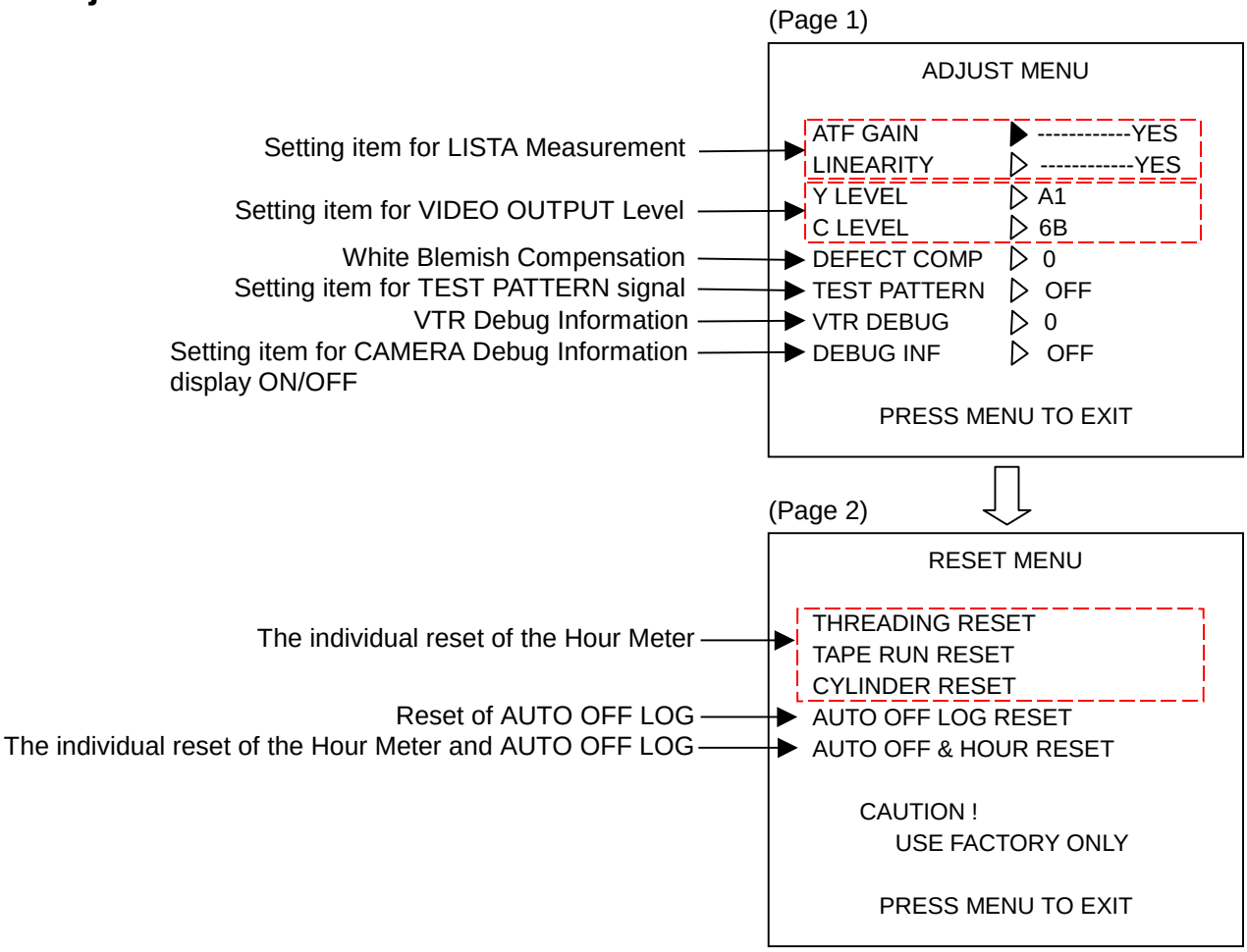
aa	Contents
01	FOCUS MOTOR LOCK
03	PSD NG
07	CYLINDER LOCK
08	LOADING LOCK
09	UNLOADING LOCK
0A	T REEL LOCK
0B	S REEL LOCK

NOTE: The messages “FOCUS MOTOR LOCK” and “PSD NG” are warning messages only and not the AUTO OFF mode.

< mm : MODE >

mm	Contents	mm	Contents
01	EJECT	12	AUDIO DUB RECORDING
02	STOP 1(CAMERA mode)	13	CAMERA RECORDING STANDBY
03	STOP 2(VCR mode)	14	CAMERA RECORDING
04	FAST FORWARD	15	CAMERA SEARCH (FORWARD)
05	REWIND	16	CAMERA SEARCH (REVERSE)
06	RECORDING STANDBY	17	REC REVIEW
07	MORMAL RECORDING	18	CAMERA EJECT
08	NORMAL PLAYBACK	1D	CYLINDER OFF
09	REVERSE PLAYBACK	22	SEARCH (FORWARD)
0A	CUE (FAST PLAYBACK)	23	SEARCH (REVERSE)
0B	REVIEW (FAST PLAYBACK)	24	BLANK SEARCH
0C	SLOW PLAYBACK	25	FRAME ADVANCE PLAYBACK
0D	REVERSE SLOW PLAYBACK	26	REVERSE FRAME ADVANCE PLAYBACK
11	AUDIO DUB STANDBY	---	---

5-2. Adjust Menu



NOTE 1: It isn't possible to do the setting of the item of DEFFECT COMP", "TEST PATTERN", "VTR DEBUG" and "DEBUG INF". This is for factory use only.

NOTE 2: The Adjust menu screen can not be shifted to Page 2 in the CAMERA mode.
The menu screen can be shifted to Page 2, when connecting EVR tools in the VCR mode and making VTR_TEST SW of the measurement board set to L position.

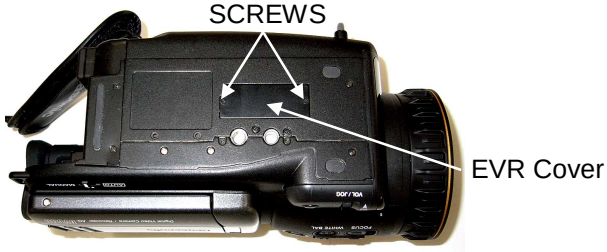
5-2-1. Connection of EVR tools

< Required Tools >

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	

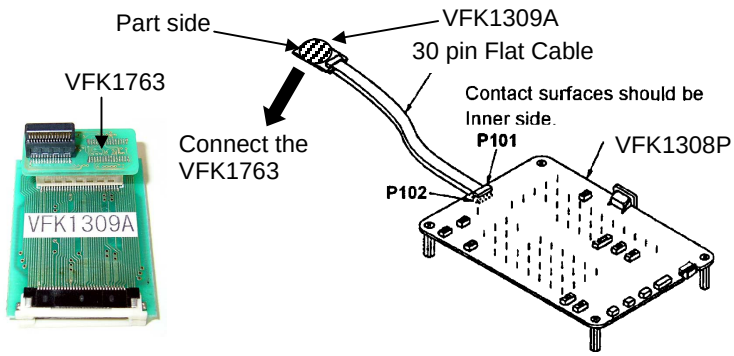
Connect the EVR tools as follows.

1. Unscrew 2 screws and remove the EVR cover.



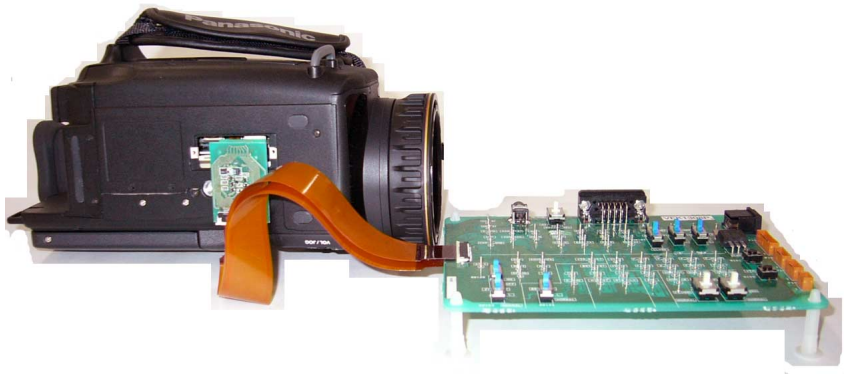
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is attached backward, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected to EVR connector, be careful of the direction of VFK1309A. Please follow as shown in the figure.



5-2-2. Setting item for LISTA Measurement (Only VCR mode)

ATF GAIN

To confirm the ATF sensitivity, change the tape speed.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.
NOW SERVO ADJUST
PUSH MENU TO RETURN
It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

LINEARITY

To confirm the LINEARITY, change the ATF sensitivity.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.
NOW SERVO ADJUST
PUSH MENU TO RETURN
It will be returned to ADJUST MENU when the MENU key is pressed in this condition.
NOTE: ATF GAIN and LINEARITY can not be selected on CAMERA mode.

5-2-3. Adjustment item for Video Level

Y LEVEL
Y level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

5-2-4. Hour Meter Reset and LOG Clear(Only VCR mode)

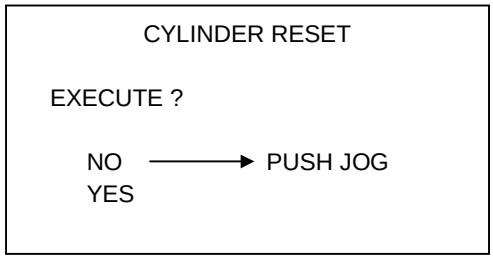
The Hour Meter and Auto Off Log data can be reset by items on page 2 in Adjust menu screen. To shift page 2 screen, connect the EVR tools and set VTR_TEST SW of the measurement board to L position follow the item "5-2-1. Connection of EVR Tools".

THREADING RESET
It resets the threading number of times.

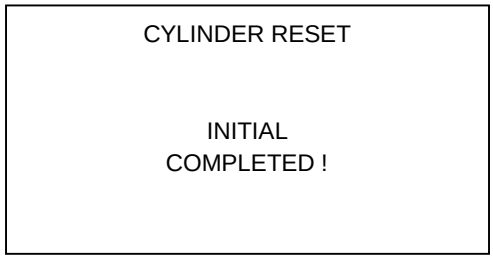
TAPE RUN RESET
It resets tape running time.

CYLINDER RESET
It resets cylinder rotating time.

< How to reset Hour Meter >
1. The following message is displayed when choosing the item to reset with MULTI-DIAL and pushing MULTI-DIAL.
(In case select the item CYLINDER)



2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.

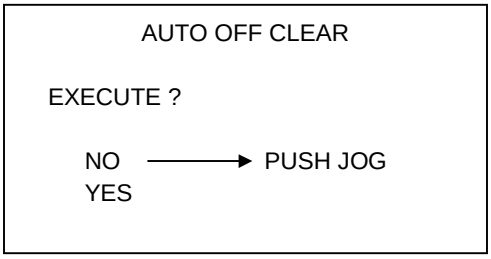


AUTO OFF LOG RESET

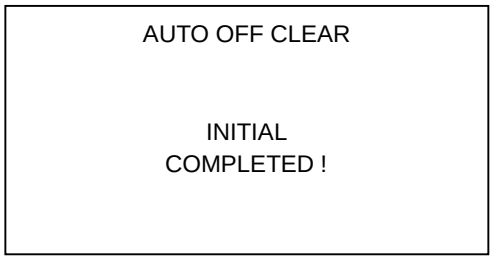
It resets auto off log information.

< How to reset Auto Off Log >

1. The following message is displayed when choosing the item “AUTO OFF LOG RESET” and pushing MULTI-DIAL.



2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.



AUTO OFF & HOUR METER RESET

It resets auto off log information and hour meter at the same time.
The procedure of resetting is same as the item auto off log and the hour meter.

6. CAMERA REMOTE

The control equipment is connected to CAMERA REMOTE jack to enable zooming and record start/stop to be initiated by remote control.
NOTE: CAMERA remote control is only effective in the CAMERA mode.
Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

Equivalent circuit of CAM REMOTE jack

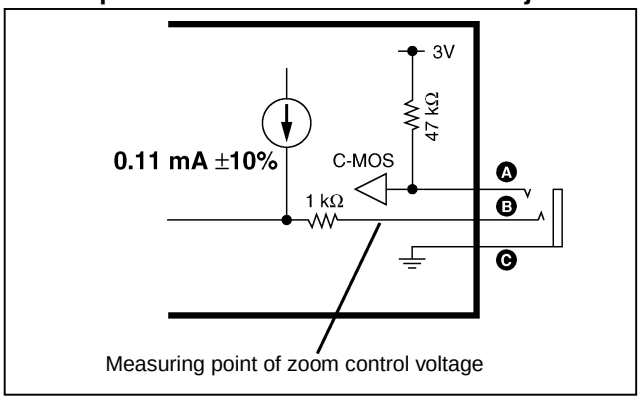


Figure A

6-1. Record start / stop input

Every time A terminal connects with the GND, it repeats recording and a recording stop.

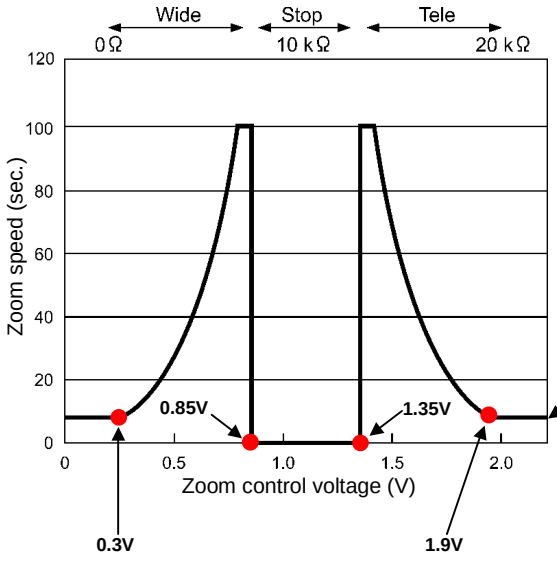
6-2. Zooming control input

With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed

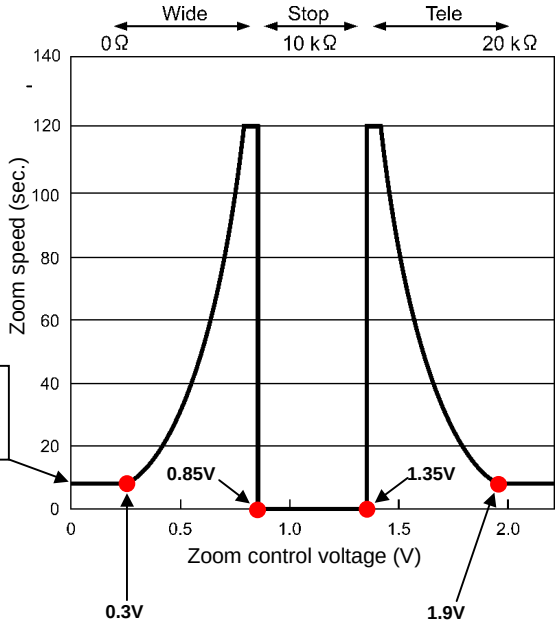
NOTE:
The control voltage and the zoom speed, which are shown below are a reference value. Because there is a little difference, see as the reference data.
And the following figure shows zoom low-speed mode. The relation between the control voltage and the zoom speed in the high speed and the medium (standard) speed modes are a little different.

In case of NTSC model

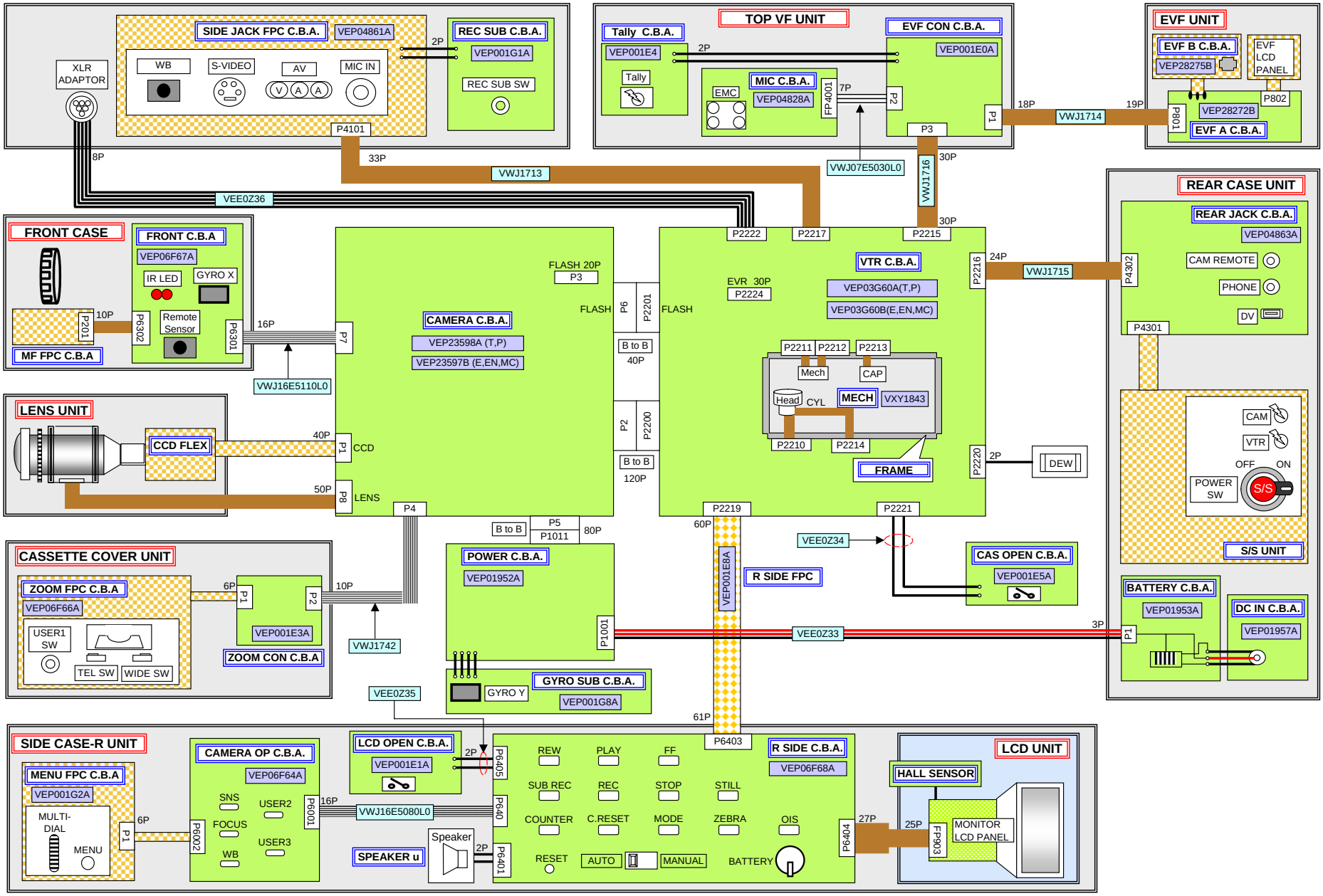


REC mode:
2sec
REC PAUSE mode:
0.85sec

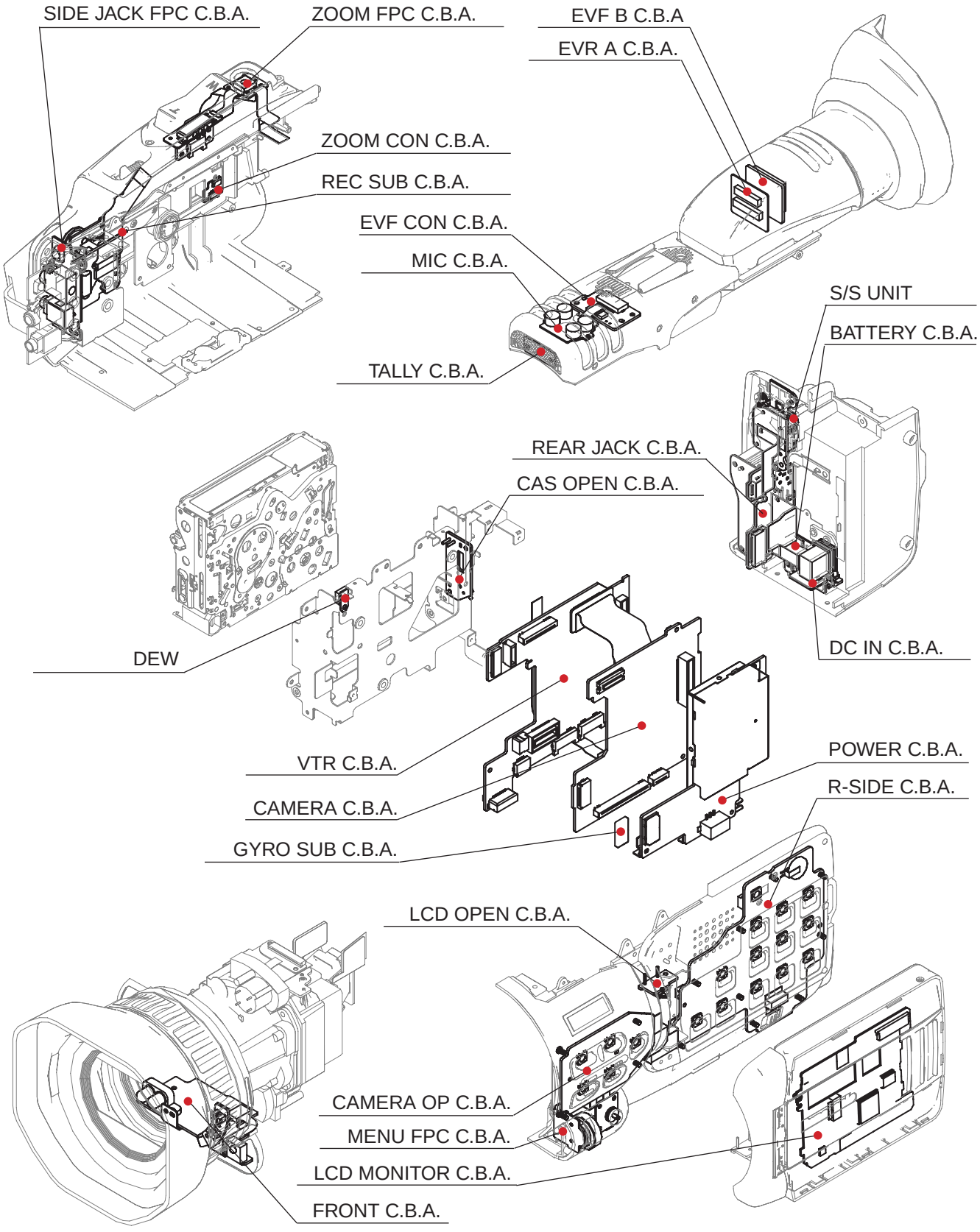
In case of PAL model



INTERCONNECTION



8. CIRCUIT BOARD LAYOUT



SECTION 2

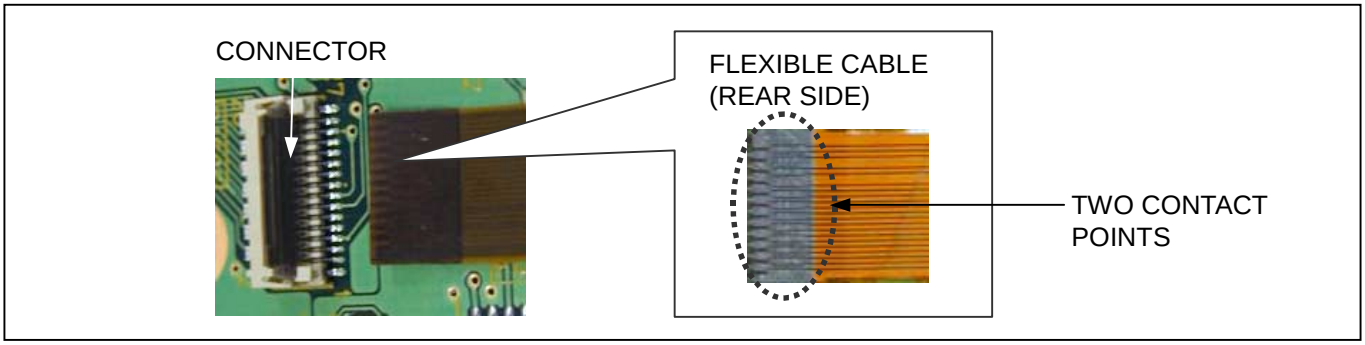
DISASSEMBLY PROCEDURES

CONTENTS

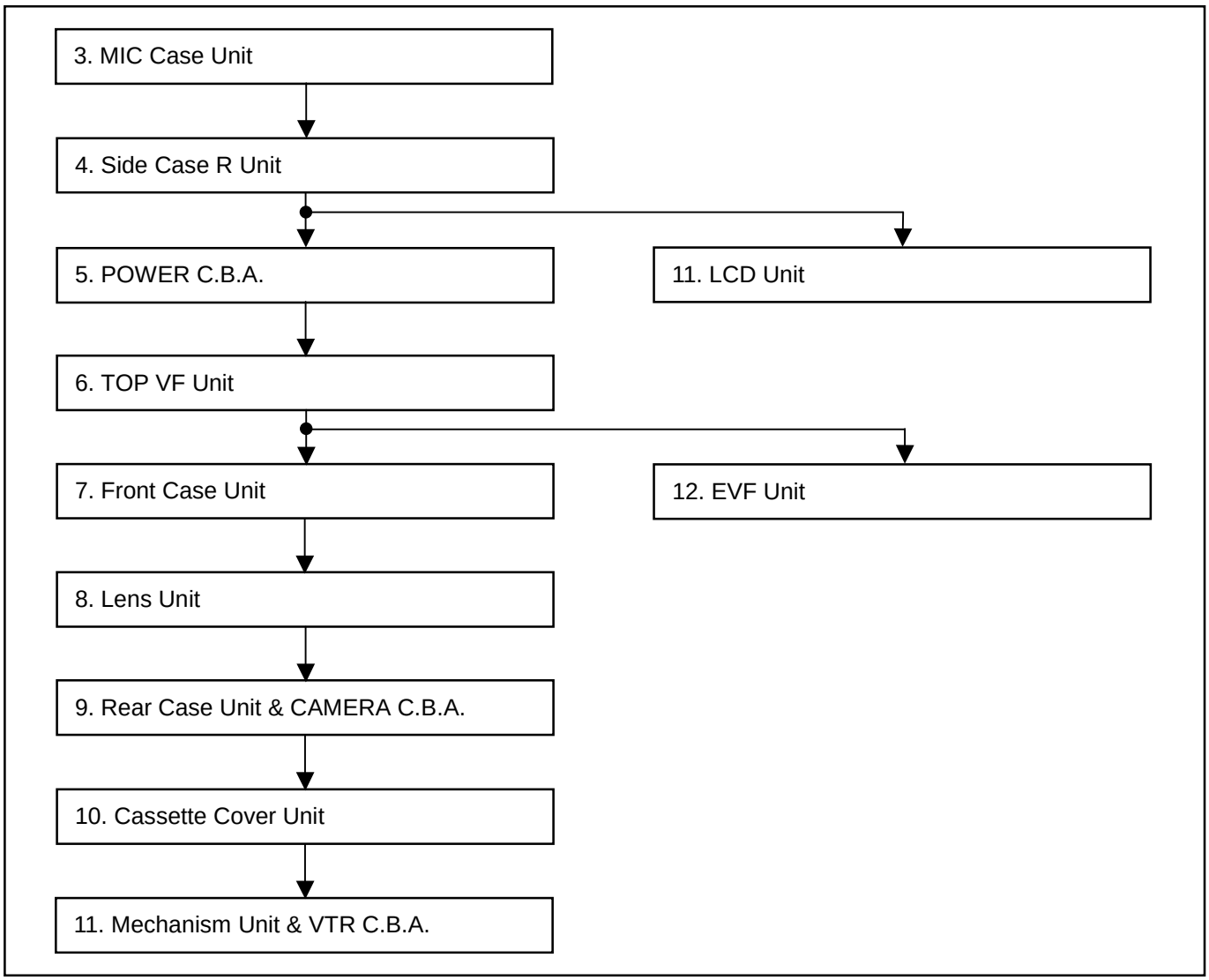
1. Note when inserting Flexible Cable DIS-1
2. Disassembly Flowchart DIS-1
3. Removal of MIC Case Unit DIS-2
4. Removal of Side Case R Unit DIS-3
5. Removal of POWER C.B.A. DIS-4
6. Removal of TOP VF Unit DIS-5
7. Removal of Front Case Unit DIS-6
8. Removal of Lens Unit DIS-7
9. Removal of Rear Case Unit & CAMERA C.B.A. DIS-8
10. Removal of Cassette Cover Unit DIS-9
11. Removal of Mechanism Unit & VTR C.B.A. DIS-10
12. Removal of LCD Unit DIS-12
13. Removal of EVF Unit DIS-13

1. Note when inserting Flexible Cable

The flexible cables, have two sets of contacts on each cable, see the figure below. When inserting these cables into the connector, make sure that the cables are fully inserted, if not they may damage the connector.



2. Disassembly Flowchart



3. Removal of MIC Case Unit

1. Unscrew the 6 screws (A) and remove the MIC Case Unit as shown in figure 3-1.

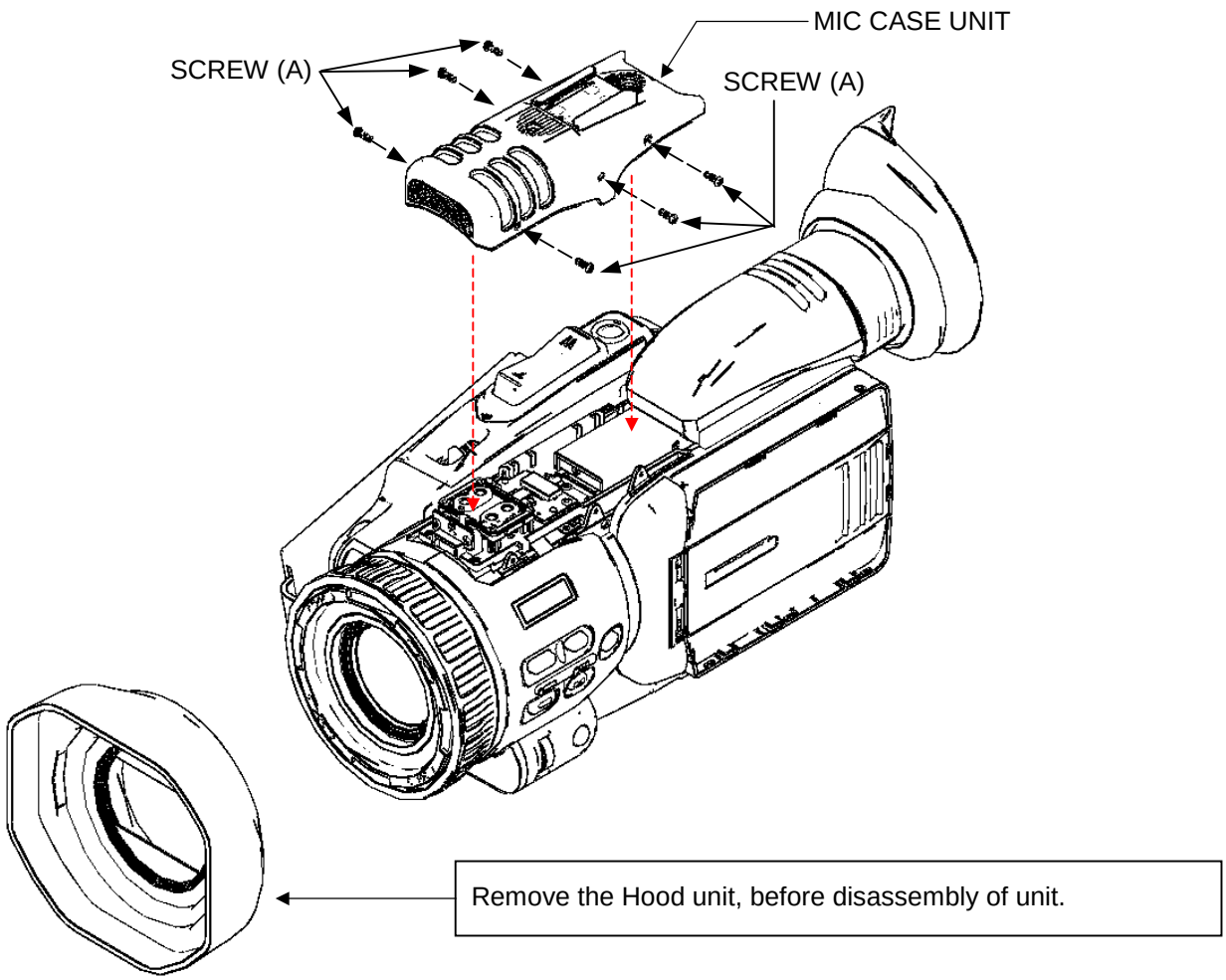


Figure 3-1

4. Removal of Side Case R Unit

1. Remove the MIC Case Unit.
2. Unscrew the 10 screws (A) as shown in figure 4-1.
3. Disconnect the connector P6403 on R SIDE C.B.A. and remove the Side Case R Unit as shown in figure 4-1.

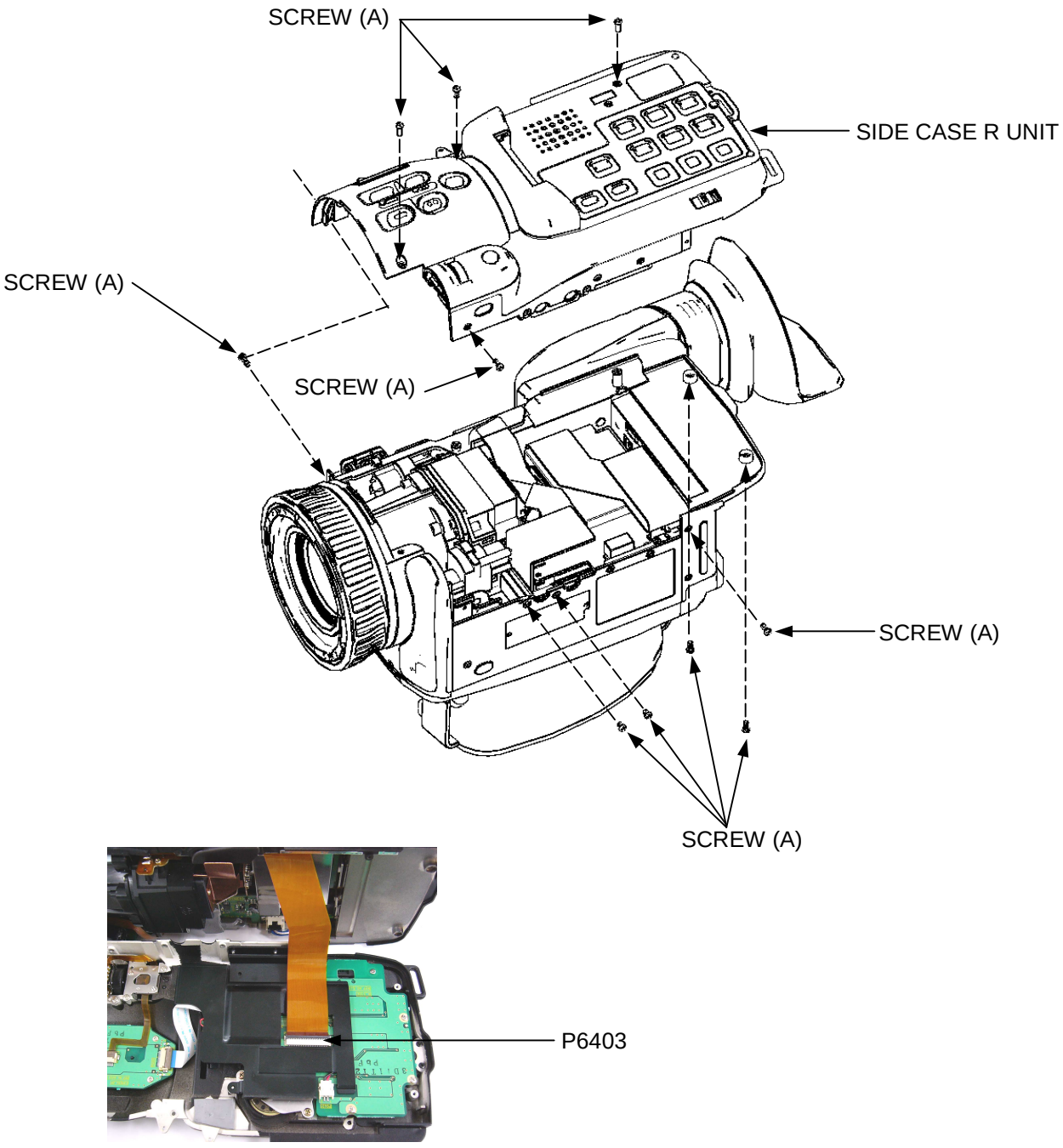


Figure 4-1

5. Removal of POWER C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Disconnect a connector P1001 on POWER C.B.A. as shown in figure 5-1.
4. Unscrew the 2 screws (A) and remove the POWER C.B.A.. Be careful because the CAMERA C.B.A.(bottom side of POWER C.B.A.) and the connector in the POWER C.B.A are combining the one connector.

(Note in installation)

1. In case new POWER C.B.A. is installed, put the Cooling Sheet in following position as shown in figure 5-1.

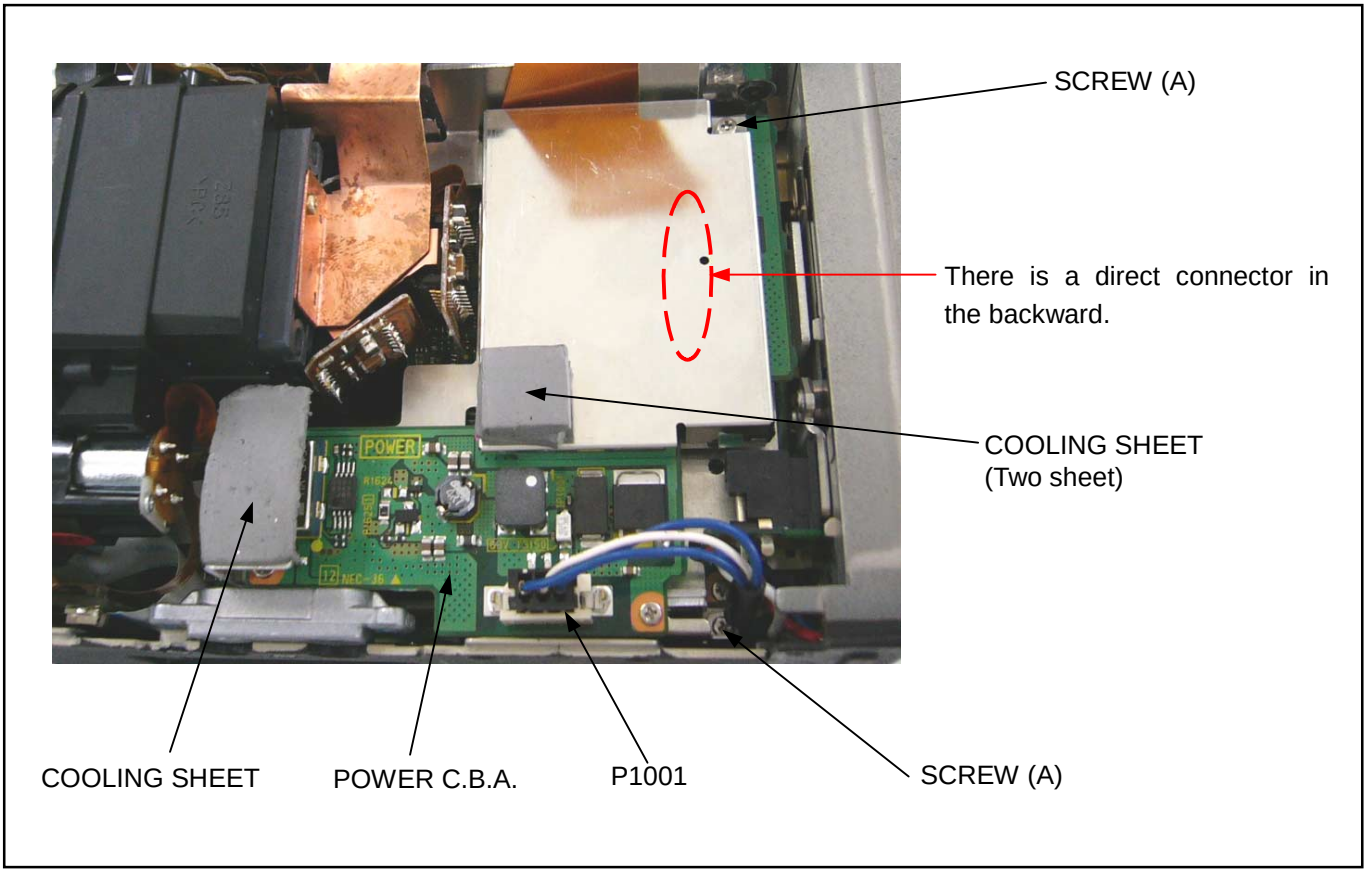


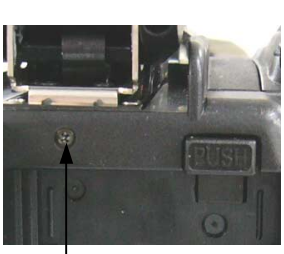
Figure 5-1

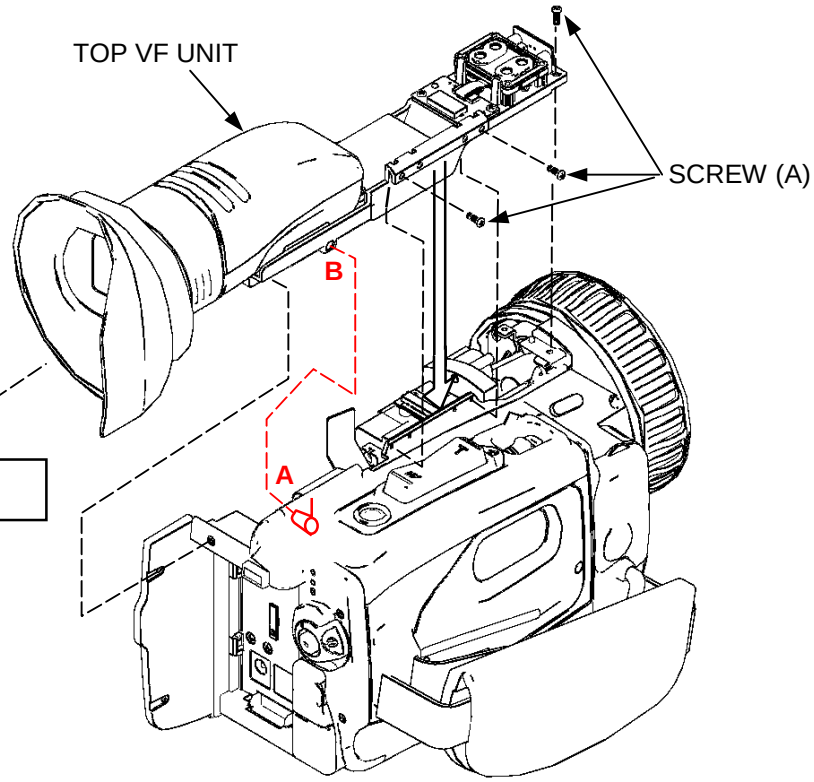
6. Removal of TOP VF Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 4 screws (A) as shown in figure 6-1.
4. Lift up the TOP VF and disconnect a connector P2215 on VTR C.B.A., then remove the TOP VF Unit as shown in figure 6-1. Then be careful because the portion A and B are hooked together.

(Note in installation)

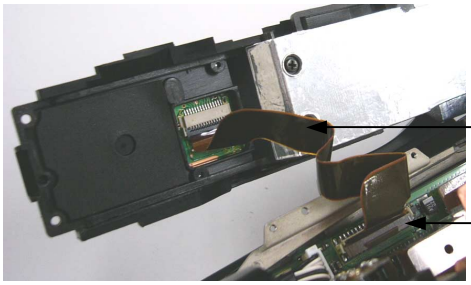
1. In case the flexible cable (A) is changed to new one, bend it to Z character as shown in figure 6-1.
2. The CCD Heat Sink is located to outside of TOP VF Unit as shown in figure 6-1.





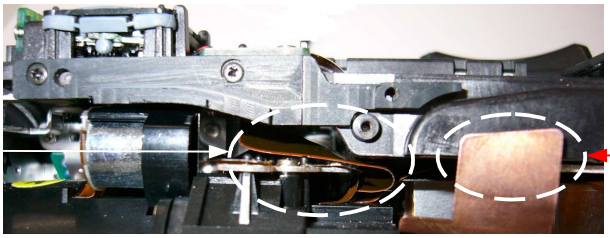
SCREW (A)

Hook the A to B portion.



Flexible Cable (A)

P2215



Do not give damage to cable

Outside of TOP VF Unit

Figure 6-1

7. Removal of Front Case Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the TOP VF Unit.
4. Unscrew the 3 screws (A) as shown in figure 7-1.
5. Disconnect a connector P6301 and remove the Front Case Unit as shown in figure 7-1.

(Note in installation)

1. When installing the Front Case Unit, do not give damage the Lens.
2. In case of the flexible cable (it connected with P6301 and CAMERA C.B.A.) is exchange to new one, bend it to Z character to put under the Lens Unit.

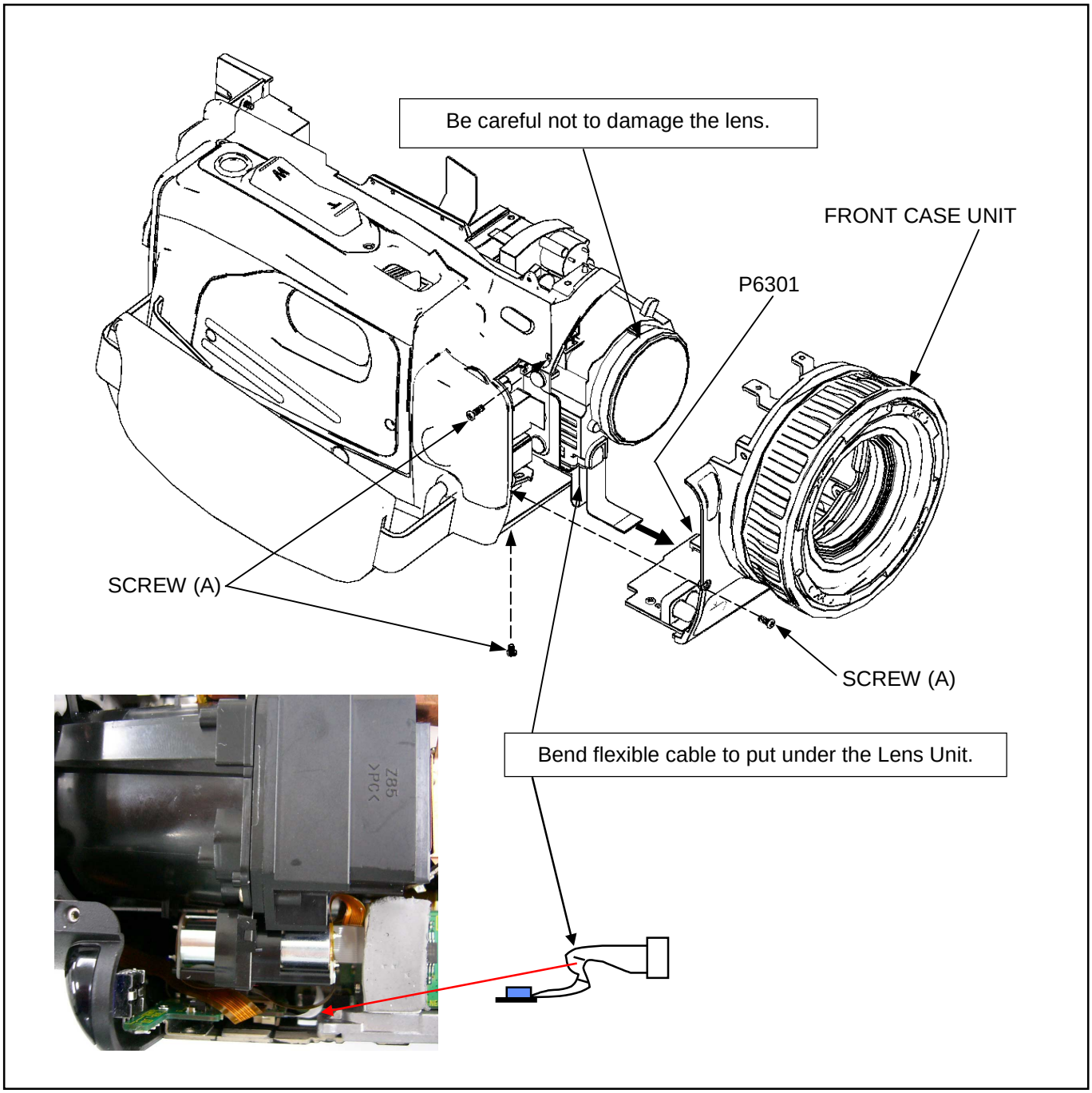


Figure 7-1

8. Removal of Lens Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Unscrew the 2 screws (A) and remove the CCD CON STOPPER as shown in figure 8-1.
7. Disconnect the connector P1 and P8 on CAMERA C.B.A. as shown in figure 8-1.
8. Unscrew the 4 screws (B) and remove the Lens Unit.
9. Unscrew the 4 screws (C) and remove the Lens Frame Unit from Lens Unit as shown in figure 8-1.

(Note in installation)

1. In case a new Lens Unit is installed, bend the flexible cable (A) to Z character as shown in figure 8-1.

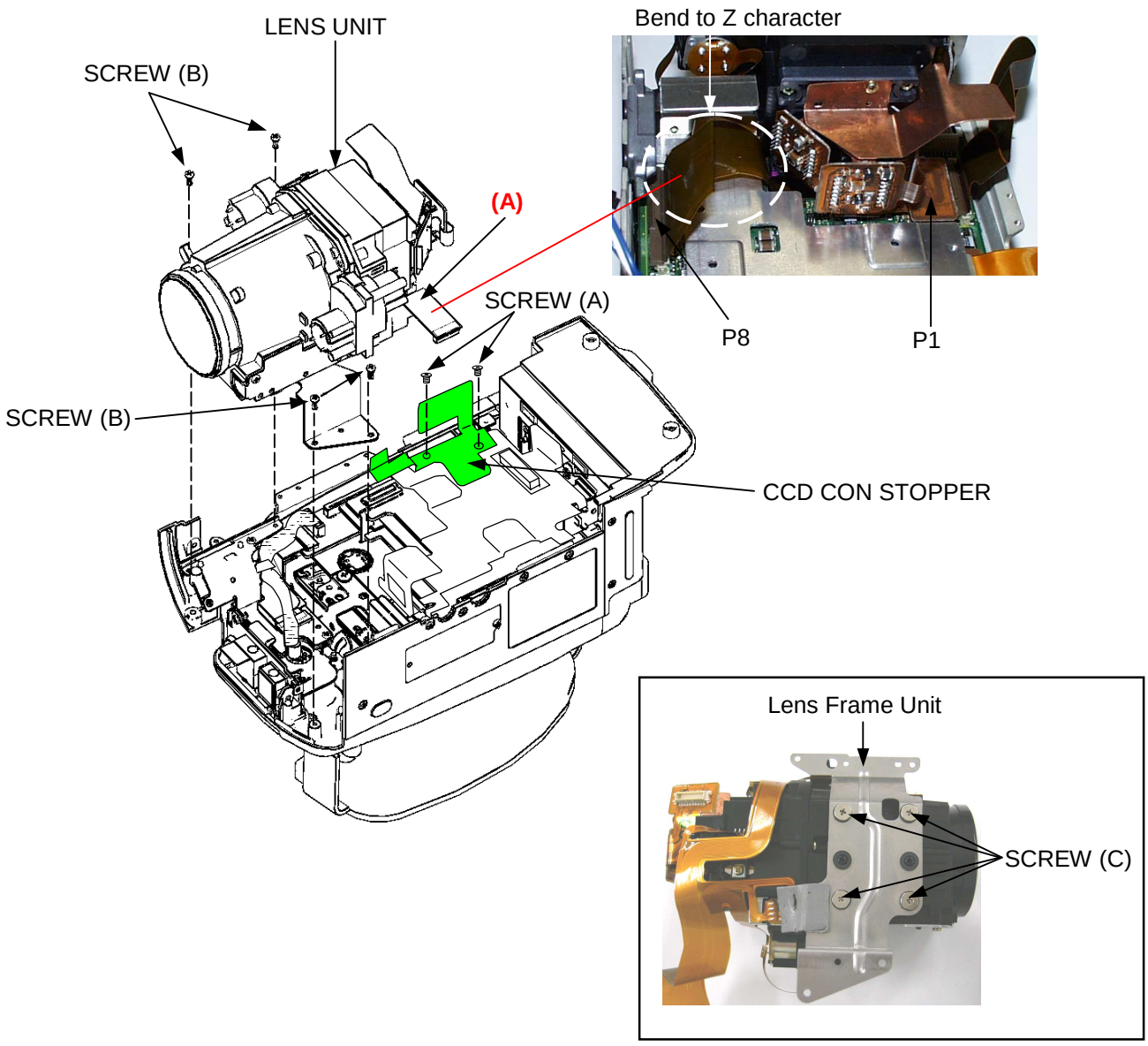


Figure 8-1

9. Removal of Rear Case Unit & CAMERA C.B.A.

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Removal of Lens Unit.
7. Remove the 3 screws (A) as shown in figure 9-1.
8. Disconnect a connector P2 on CAMERA C.B.A. as shown in figure 9-1.
9. Unscrew the 2 screws (B) on CAMERA C.B.A. as shown in figure 9-1.
10. It shifts the Rear Case Unit as much as showing in figure 9-1 and remove the CAMERA C.B.A.. Be careful because the VTR C.B.A.(bottom side of CAMERA C.B.A.) and the connector in the CAMERA C.B.A are combined.
11. Disconnect a connector P2216 on VTR C.B.A. and remove the Rear Case Unit.

(Note in installation)

1. When installing the CAMERA C.B.A., Attach the CAMERA C.B.A. to portion “A” of Mech. Attachment Frame as shown in figure 9-1.
2. When installing the CAMERA C.B.A., the parts which are shown in figure 9-1 on the CAMERA C.B.A. are combined with the VTR C.B.A. with the direct connector, pushing CAMERA C.B.A. well.
3. When installing the Rear Case Unit, it puts section “B” in the hole of flexible cable, which is connected in P2216 as shown in figure 9-1.

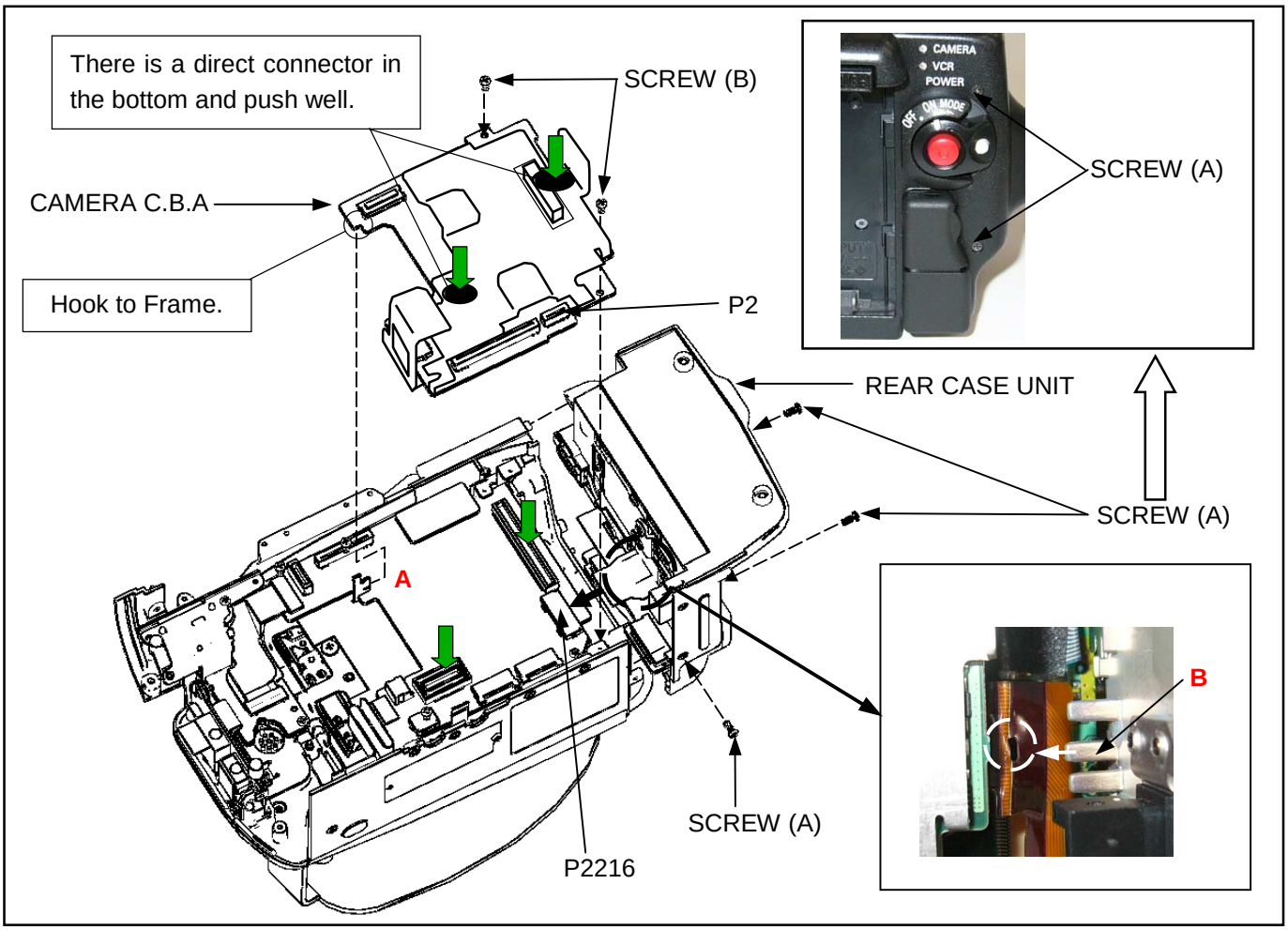


Figure 9-1

10. Removal of Cassette Cover Unit

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Unscrew the 2 screws (A) and remove the Cassette Cover Unit as shown in figure 10-1.

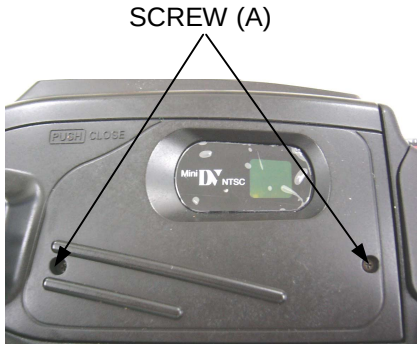


Figure 10-1

(Note in installation)

1. Pass flexible cable through the portion “A” as shown in figure 10-2.
2. Attach the “B” portion to “C” portion as shown in figure 10-2 and tighten the 2 screws (A).

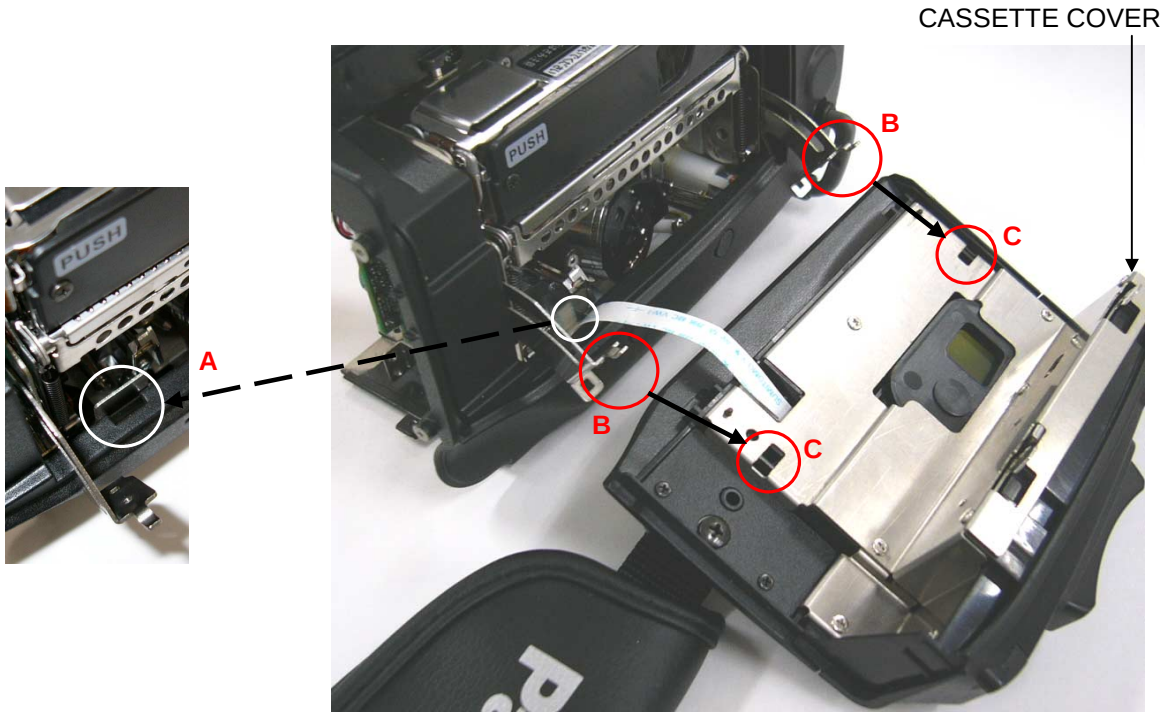


Figure 10-2

11. Removal of Mechanism Unit & VTR C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Remove the Cassette Cover Unit.
9. Disconnect the connector P2219 and P2222 on VTR C.B.A. as shown in figure 11-1.
10. Disconnect the connector P2217 on VTR C.B.A. and P4101 on SIDE JACK C.B.A., then remove the flexible cable (A) as shown in figure 11-1.
11. Unscrew the 6 screws (A) and remove the Unit (Mechanism & VTR C.B.A.) as shown in figure 11-1.

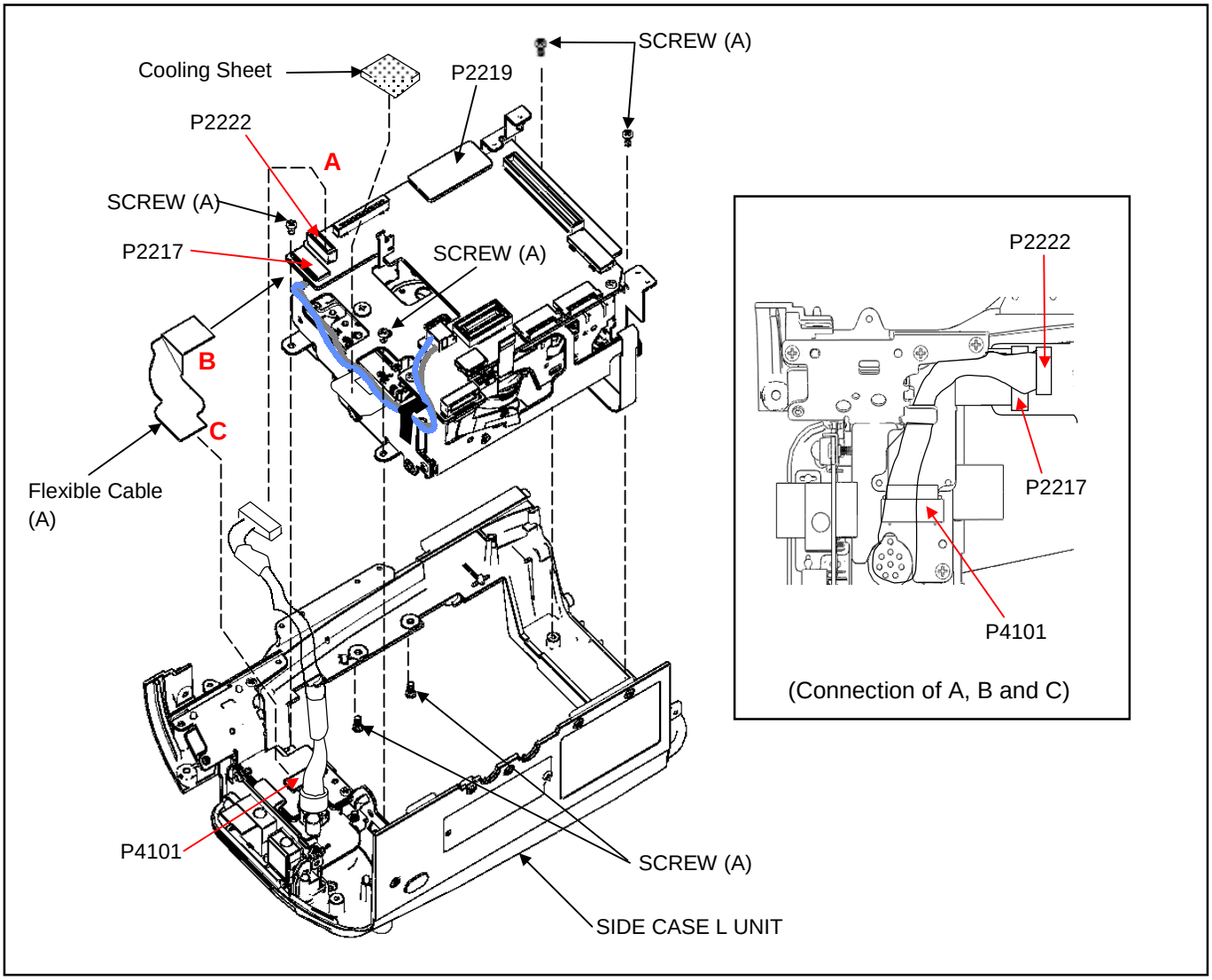


Figure 11-1

NOTE: MECH Attachment Frame requires replacement, make sure to move the Cooling Sheet to the new MECH Attachment Frame. See figure 11-1.

12. Disconnect the 7 connectors (A),(B),(C),(D),(E),(F) and (G) on VTR C.B.A. as shown in figure 11-2.

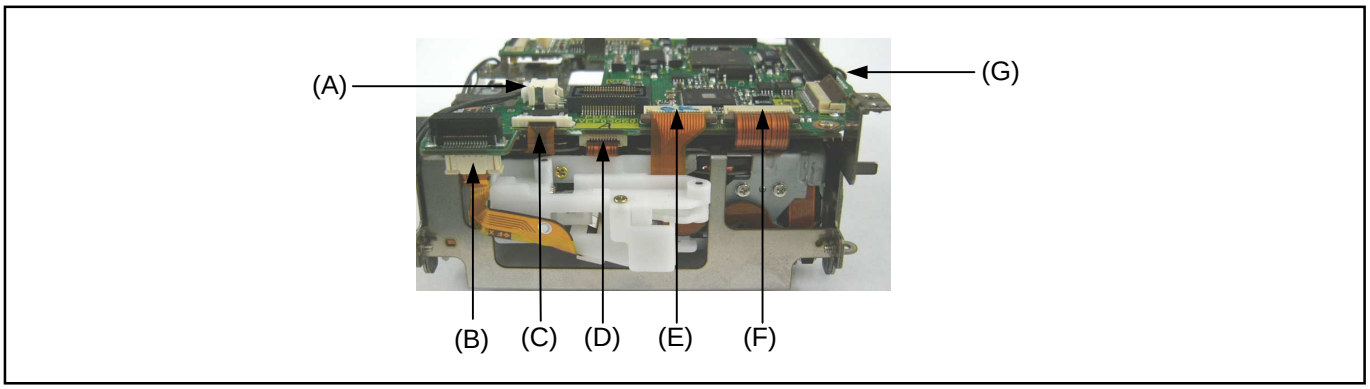


Figure 11-2

13. Unscrew the 2 screws (B) and remove the VTR C.B.A. as shown in figure 11-3.
14. Unscrew the 3 screws (C) and remove the Mechanism Unit from Mech. Attachment Frame Unit as shown in figure 11-3.
15. Unscrew the 2 screws (D) and remove the Garage Cover as shown in figure 11-3.

NOTE: In case a new Mechanism unit is installed, put the FPC Protection Sheet in the following position as shown in figure 11-3.

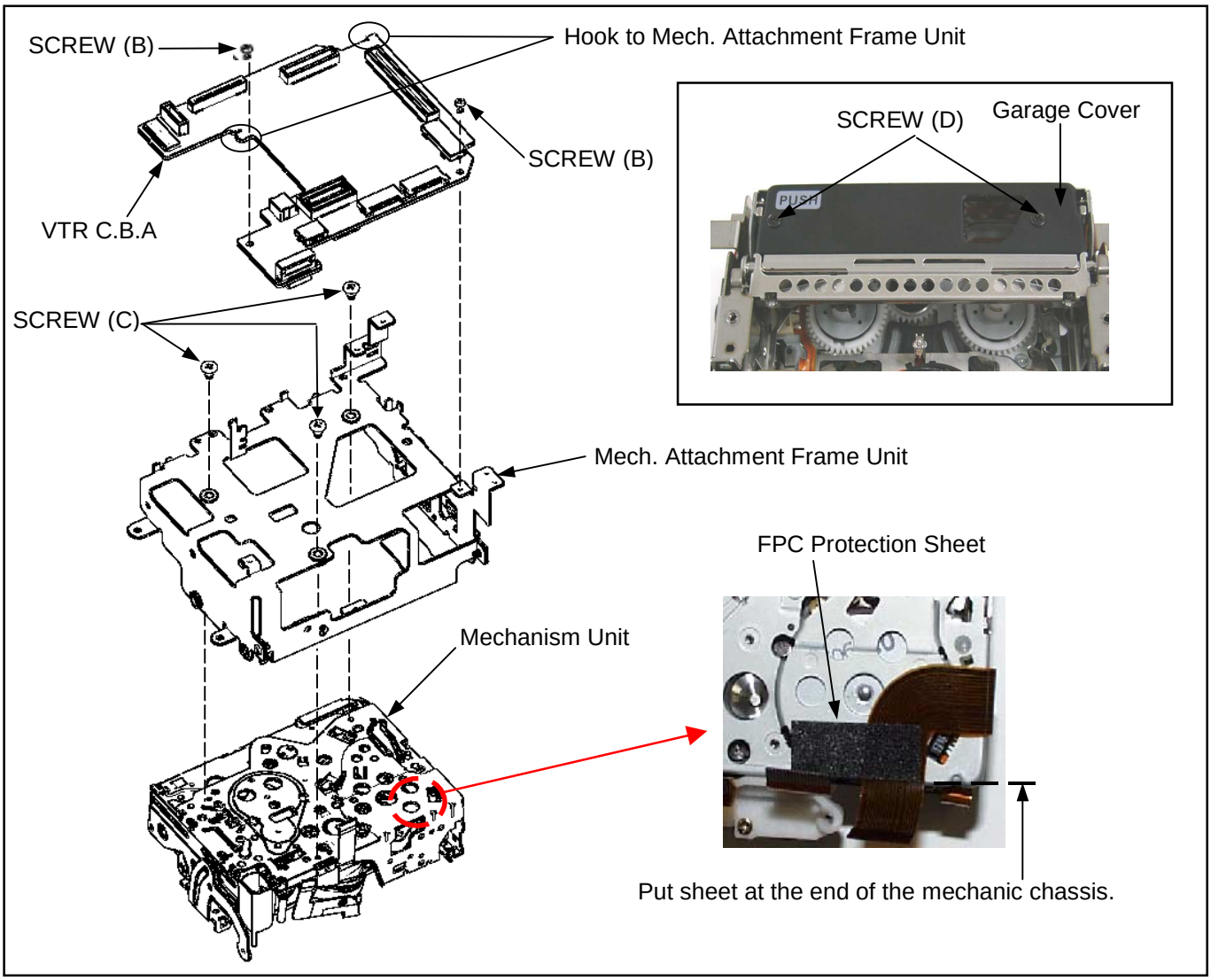


Figure 11-3

12. Removal of LCD Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 3 screws (A) and remove the HEAT SINK(SIDE R) as shown in figure 12-1.
4. Remove the FFC Protection Sheet as shown in figure 12-2.
5. Remove the Cooling Sheet to unscrew the screw (B) and unscrew the screw (B) and (C) as shown in figure 12-2.
6. Remove the HINGE COVER and unscrew the 2 screws (D) as shown in figure 12-3.
7. Disconnect connector P6404 on R SIDE C.B.A. and remove the LCD Unit as shown in figure 12-2.

(Note in installation)

1. When installing the FFC Protection Sheet, fully open the LCD Panel and Put on the original position as shown in figure 12-2.
2. Do not forget put on the Cooling Sheet after tightening the screw (B) as shown in figure 12-2.

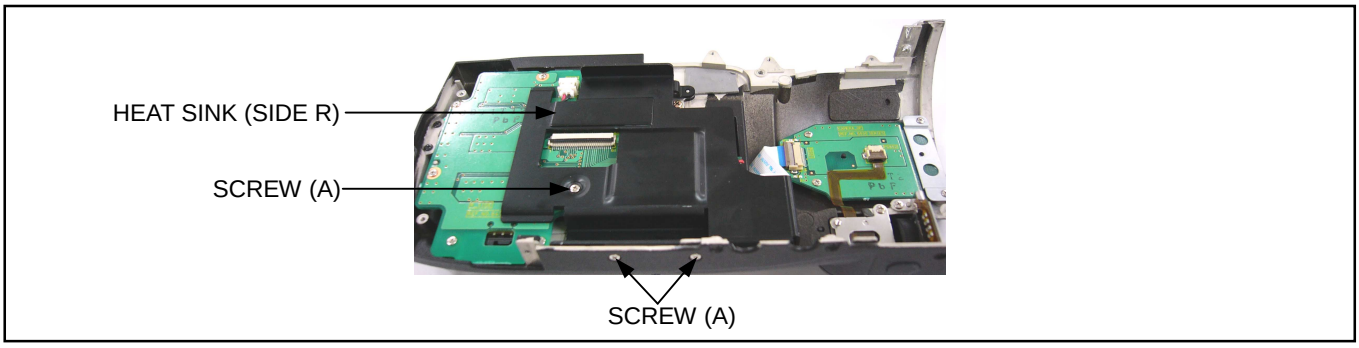


Figure 12-1

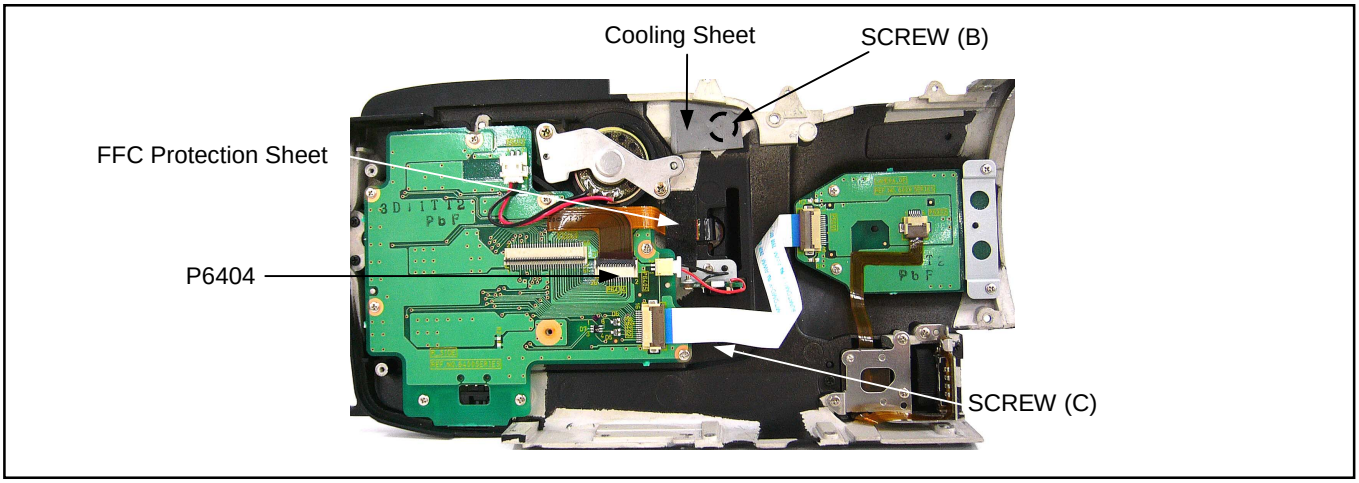


Figure 12-2

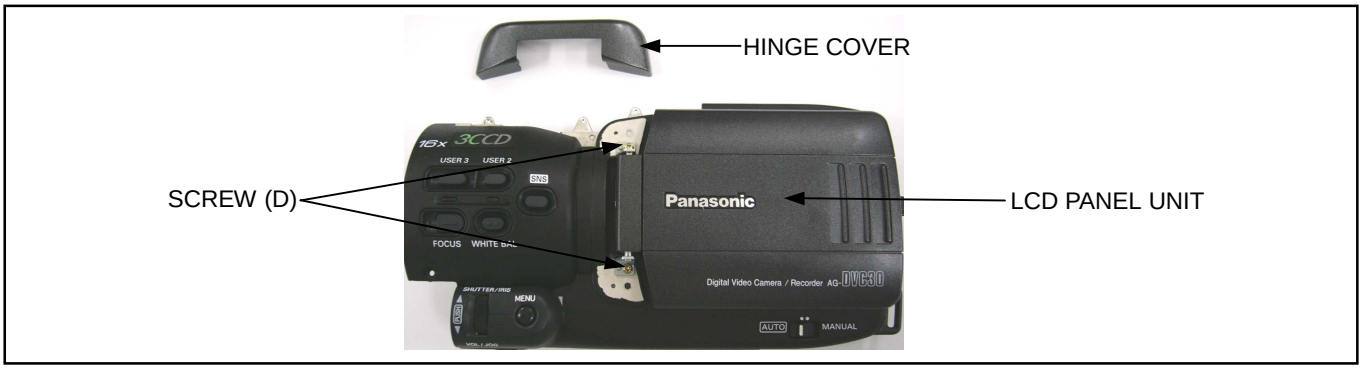


Figure 12-3

13. Removal of EVF Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of TOP VF Unit.
4. Disconnect connector P1 on EVF CONNECT C.B.A. as shown in figure 13-1.
5. Unscrew the 4 screws (A) and remove the EVF Unit and EVF SLIDER Unit from EVF LCD HOLD Unit as shown in figure 13-2.
6. Unscrew the 3 screws (B) and remove the EVF SLIDE COVER as shown in figure 13-3.
7. Unscrew the 4 screws (C) and remove the EVF Unit from EVF SLIDER Unit as shown in figure 13-4.

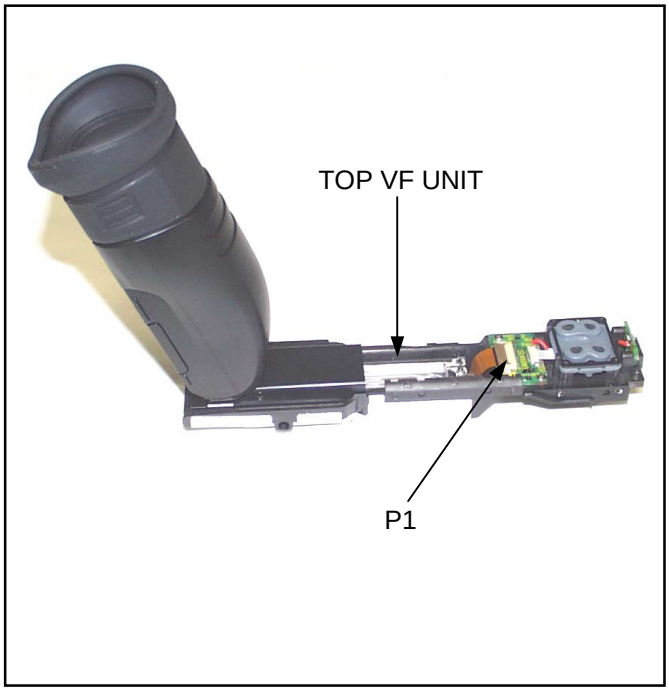


Figure 13-1

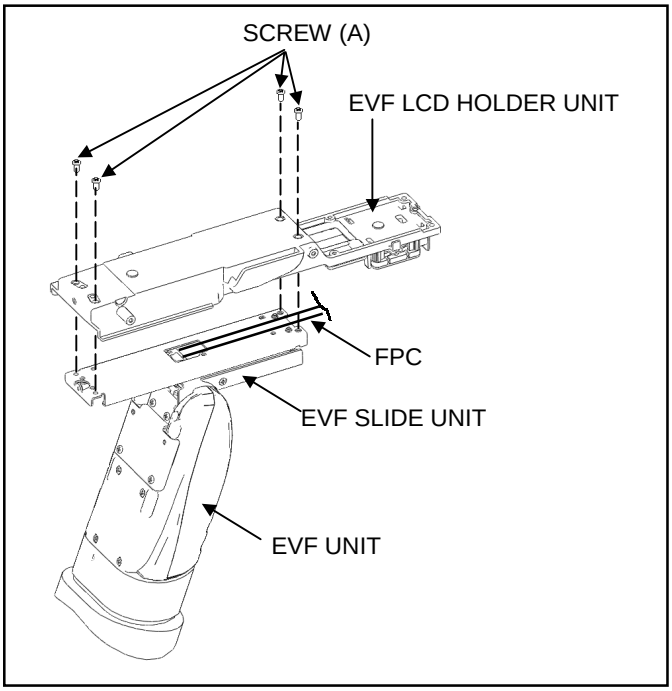


Figure 13-2

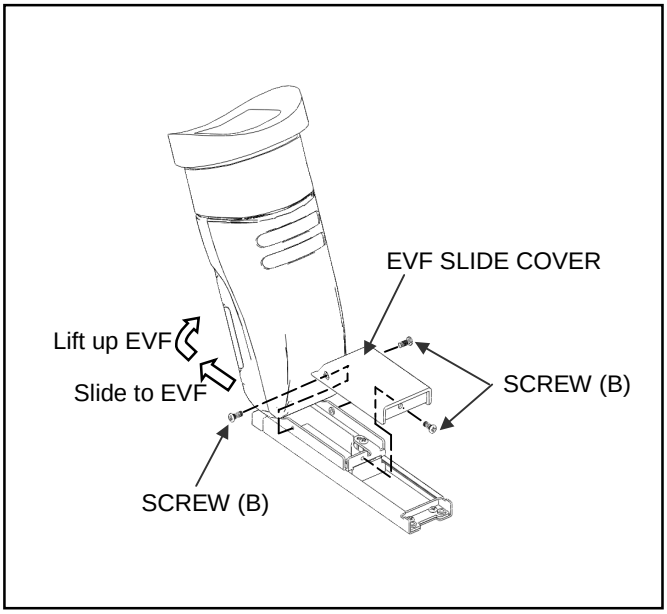


Figure 13-3

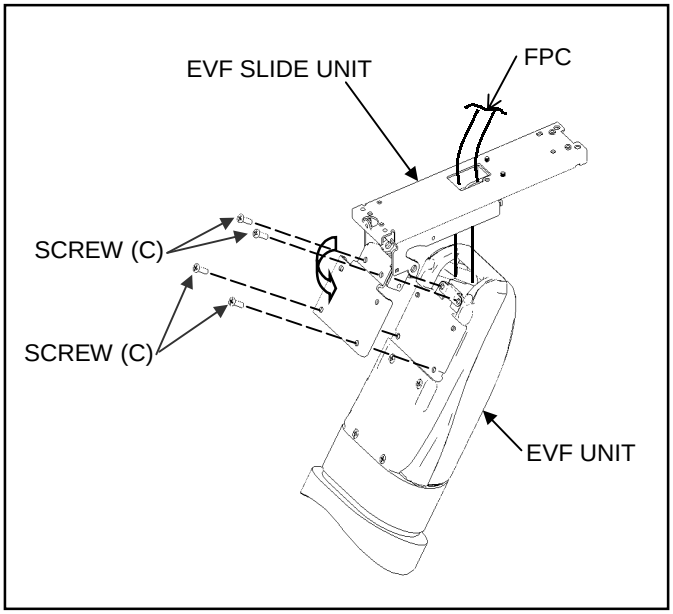


Figure 13-4

SECTION 3

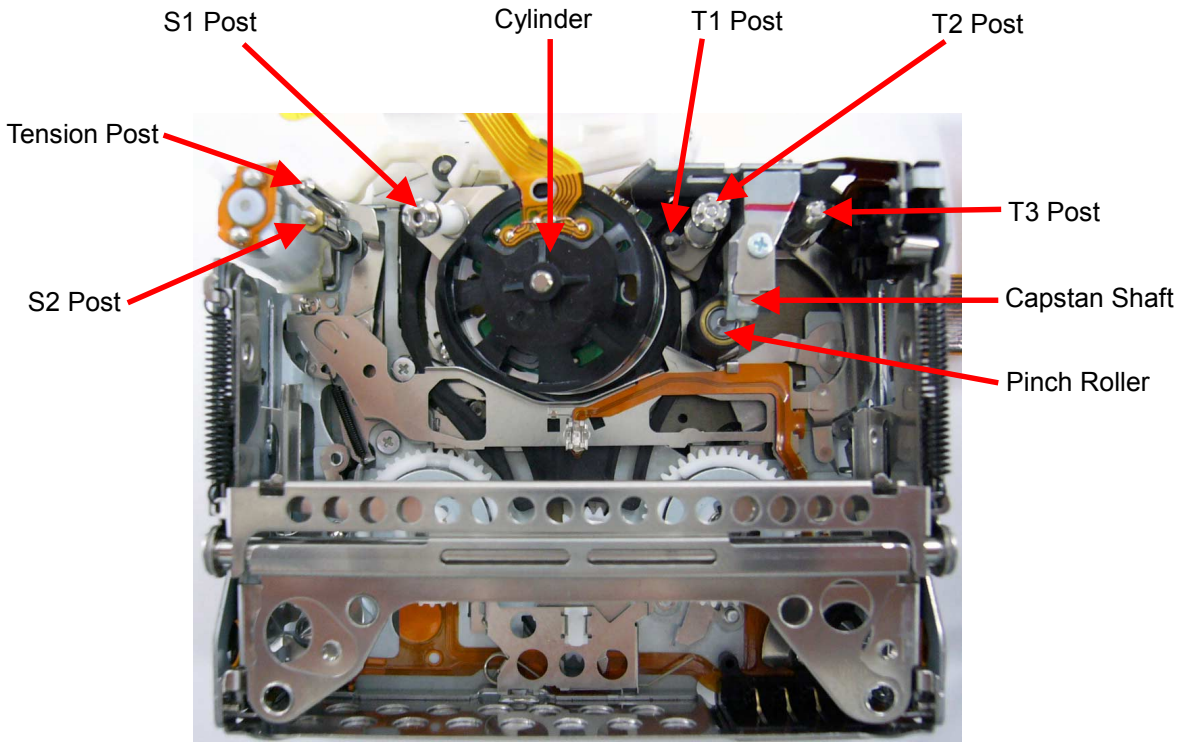
MECHANICAL ADJUSTMENT

CONTENTS

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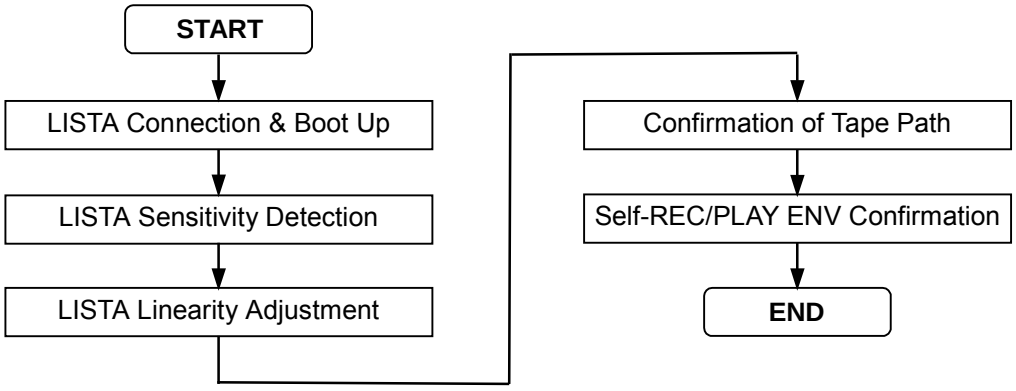
1. MECHANICAL ADJUSTMENT AND CONFIRMATION

1-1. Name of Tape Transportation



LOADING condition

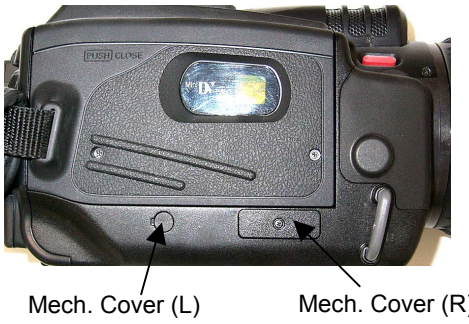
1-2. Tape Path Adjustment Procedure



1-3. Adjustment of S1 & T2 Post

LISTA linearity and Envelope waveform are adjusted by S1 and T2 post. When removing the Mech. Cover (R) and (L), which is shown in the following figure, without opening a cassette cover, it is possible to do an adjustment.

Mech. Cover (R) side: S1 Post
Mech. Cover (L) side: T2 Post



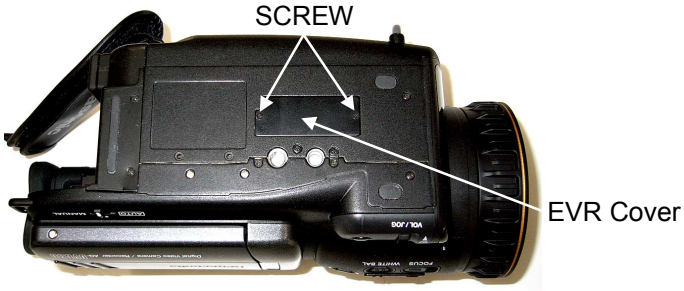
1-4. Connection of EVR Tools

To performing the confirmation of envelope (item “1-11. Self-REC/PLAY Envelope Confirmation”), the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA1128 or LSJA0310	1	For Unit
DC Cable	VJA0941	1	For Measuring Board
AC Adapter	-----	2	

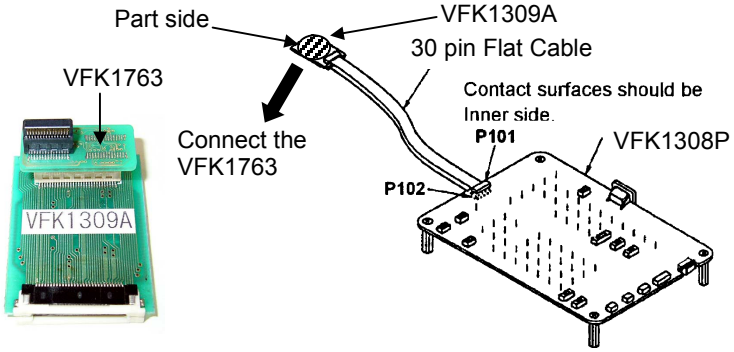
To confirm the envelope output, connect the Connection and Measuring Boards as described below.

1. Unscrew 2 screws and remove the EVR cover.



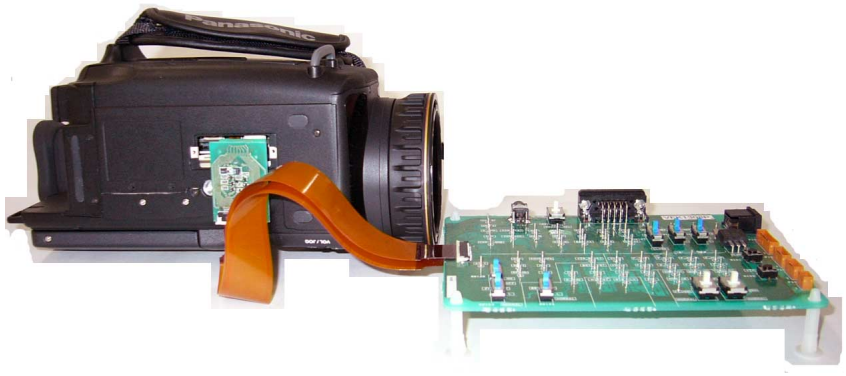
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
The unit will not work if the connector is attached backwards.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

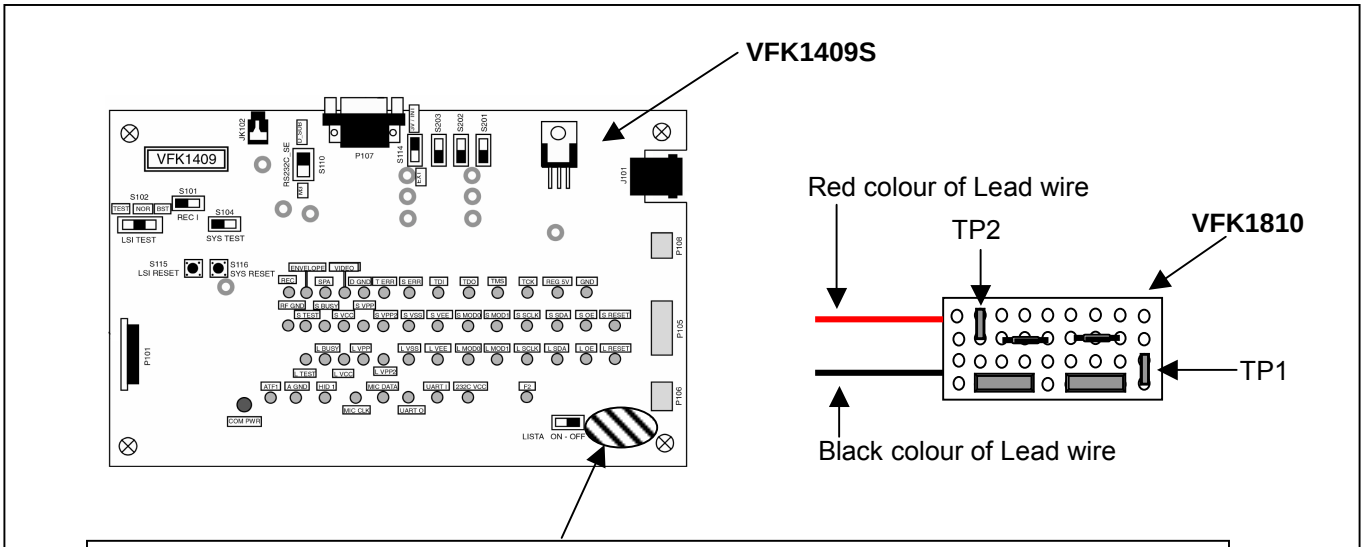
When the VFK1763 is connected the EVR connector, be careful that VFK1309A is attached in the right direction.



1-5. Connection of LISTA Adjustment System

TAPE	VFM3000EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481K (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409A (Measuring Board) ← **NOTE 2** VFK1317 (30P flat cable): 2pcs, VFK1309A (EVR connector board) ← **NOTE 1** VFK1763 (Connection Adapter), VJA0941 (DC cable): 2pcs, 9P RS232C cross cable.
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)

NOTE 1:
VFK1309 and VFK1309A can be used to perform LISTA adjustment. The VFK1309A is only required for LCD adjustment (refer to item 1 of Electrical adjustment procedure in section 4.)
NOTE 2:
If you already have VFK1409S (Measuring board), it can be used to perform LISTA adjustment with VFK1810. Please refer to next explanation for installation of VFK1409S.



1. Install the two test points of VFK1810 to through hole in this area and solder it at test point at foil side of VFK1409S to fixed VFK1810.

2. Insert the two lead wires of VFK1810 to through hole.

3. Solder the red color of lead wire to pin1 of P108 on foil side on VFK1409S.

4. Solder the black color of lead wire to pin3 of P106 on foil side on VFK1409S.

1. Set the switches on the Measuring Board as shown below.

<VFK1308P>

SW NAME& No.	Setting Position
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	L
BST TEST (SW104)	NORMAL
SW105	H
SW106	OFF
SW107	CENTER position
SW108	H
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

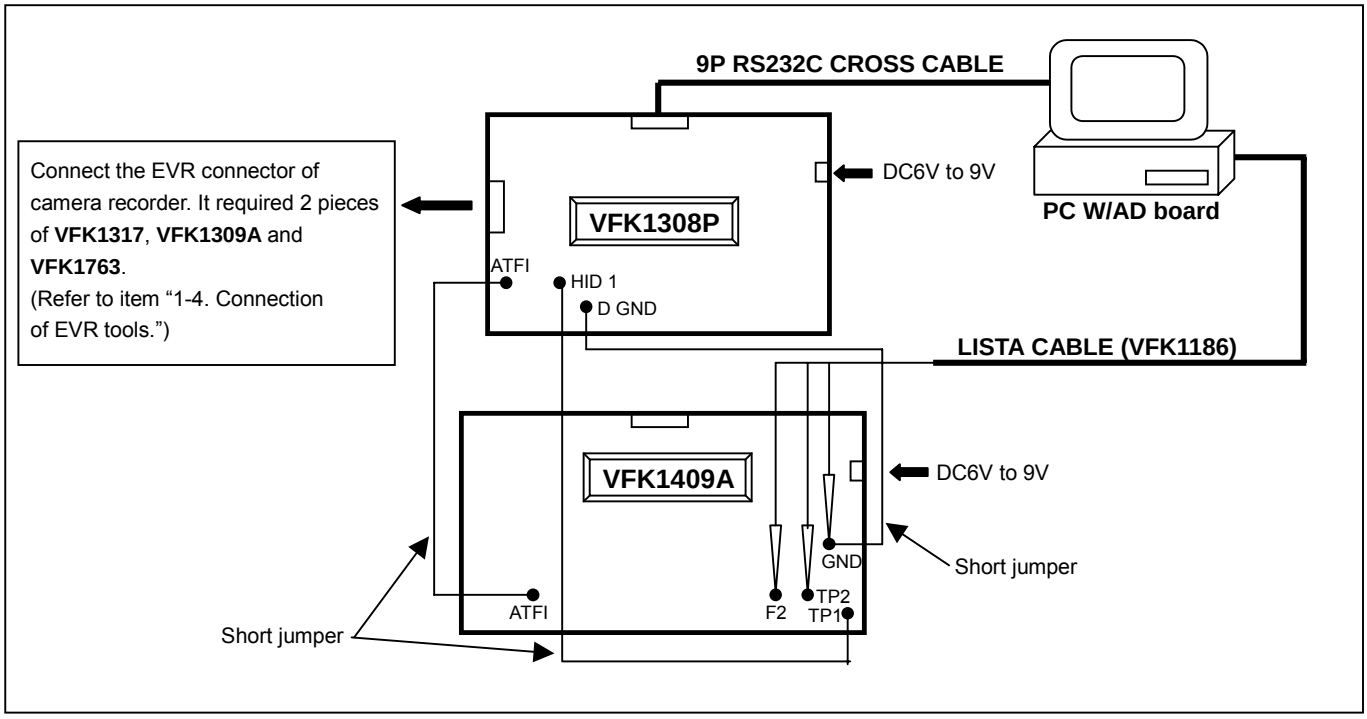
<VFK1409S or VFK1409A>

SW NAME& No.	Setting Position
RS232C SEL (S110)	D-SUB
REC I (S101)	NOR
LSI TEST (S102)	NOR
S104	NOR
S114	EXT
S201	Right side
S202	Right side
S203	Right side
LISTA ON-OFF	ON

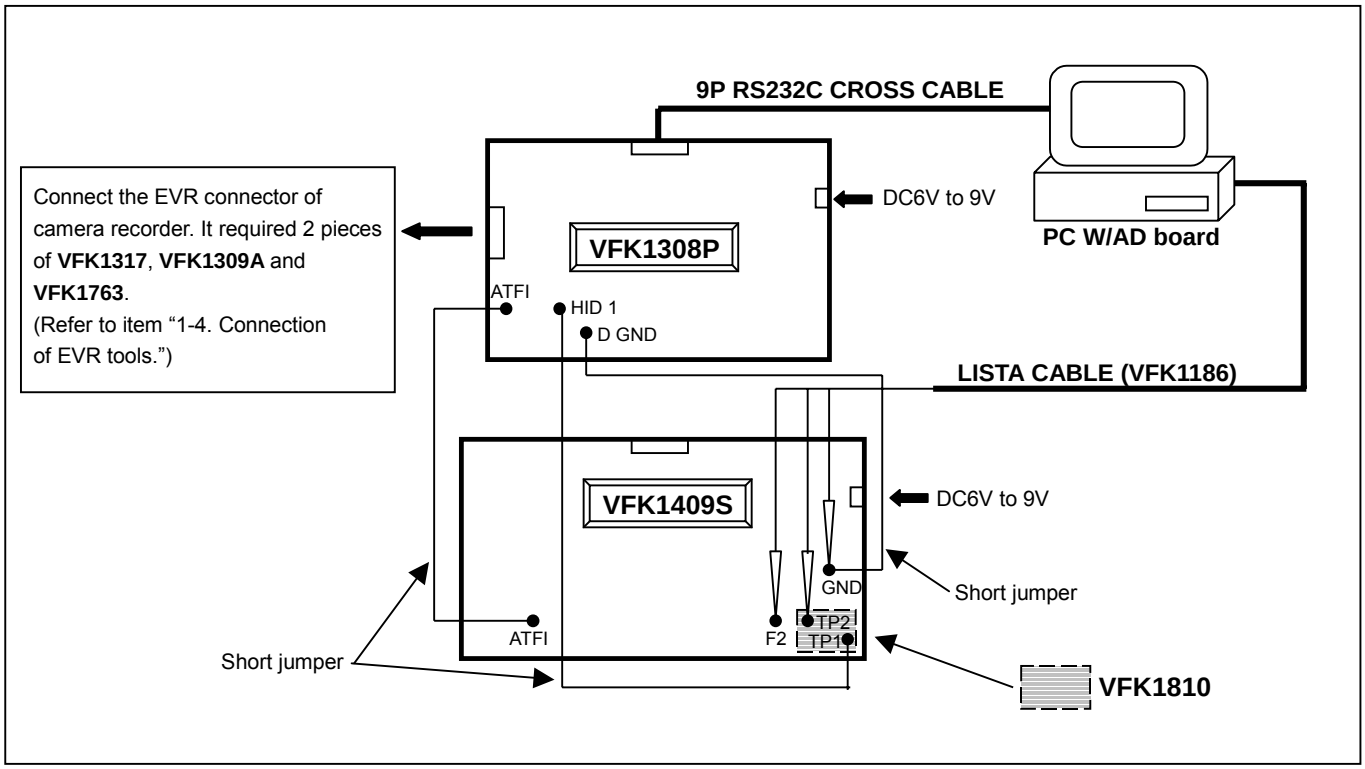
2. Connect a PC, the Measuring Board and the camera recorder as shown below.

<CONNECTION>

1) In case of use VFK1409A



2) In case of use VFK1409S



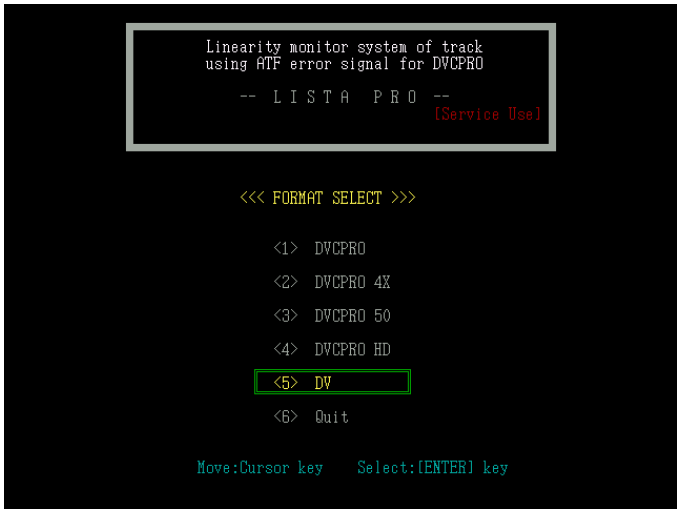
3. Connect the clips of the LISTA cable to test point on the Measuring Board. (Refer to Items **"Sensitivity Detection"** and **"Linearity Adjustment"**.)

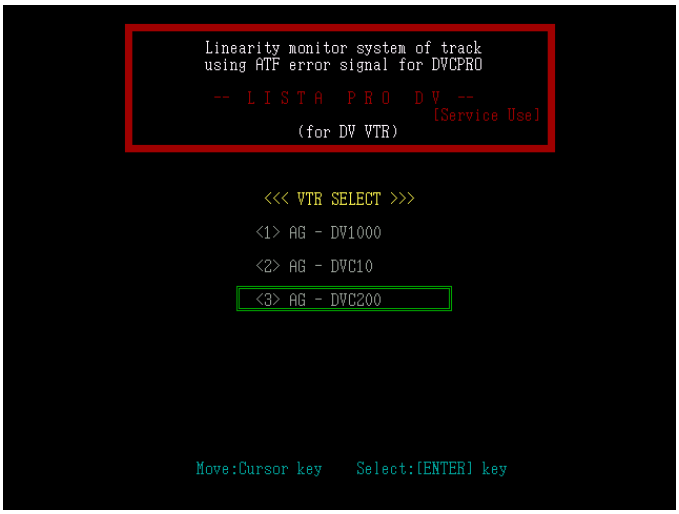
1-6. Boot up the LISTA Software

1. Boot up the LISTA software on DOS mode.

> **< How to Install and Boot Up >**
> Make a directory like C: LISTA and copy all files in the VFK1481K(LISTA Software) to it on PC.
> Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481K.

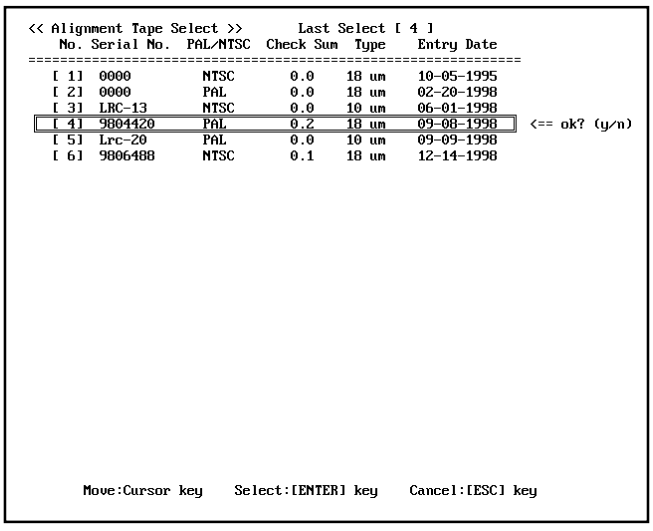
2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appears. Select the item **"DV"**. After select the format, **<<< VTR SELECT >>>** display appears, and select the model **"AG-DVC200"**.



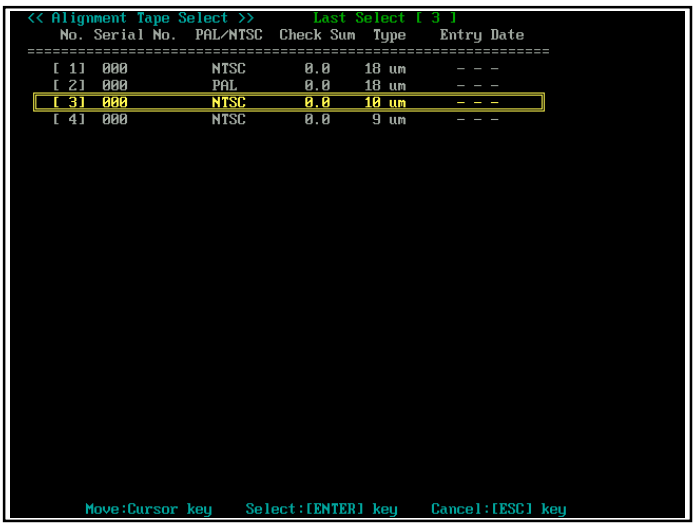


3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software is not entered with data of alignment tape, press the ESC key, then main menu is displayed on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed with alignment tape.
4. In case of LISTA software has entered data of alignment tape, select the serial number of Alignment tape, then message appears **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is displayed on screen.

< In case of Alignment Tape entered already >



< In case of Alignment Tape does not entered >



1-7. How to Enter the Alignment Tape Data

1. Select the item **"<4> Alignment Tape"** on the LISTA main menu.
2. Select the item **"<2> ENTRY"** on the alignment menu.
3. After the screen displays the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **"0"** or **"1"** for selected the PAL/NTSC. And after that enter the tape type, input **"0"** for DVCPRO, input **"1"** for DV or input **"2"** for HDLP.
4. After selecting the tape type, the frame for inputting the DATA and CHECK SUM appears on the screen. Input the numerical value in numerical order on the data sheet, which is enclosed with alignment tape. If the wrong number is inputted, the error message on the screen, then confirm that data on the sheet.
5. After the data entry, the screen returns to **"LISTA MAIN"** menu. Confirm the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10μm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

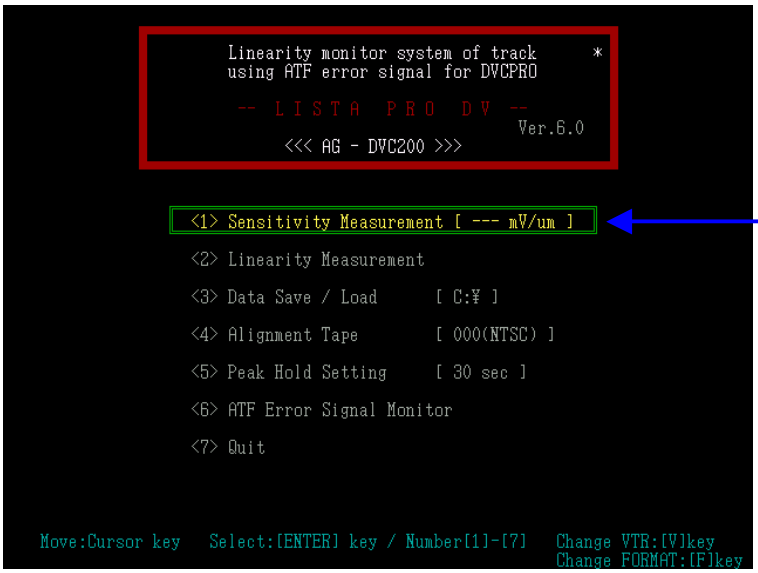
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

NOTE: This is sample only, you must enter information from your alignment tape. Each tape is different.

1-8. LISTA Sensitivity Detection

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
SPEC.	40 mV / µm to 120 mV / µm



Select at Sensitivity Detection.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **"VCR FUNCTION MENU"**.
4. Open the **"8. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"ATF GAIN"** and press the MULTI-DIAL.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **"ADJUST MENU"** screen.
8. Select item **"<1> Sensitivity Measurement"** on the LISTA main menu, and press **"ENTER"**.
9. Then the tape is played back (tape speed : 101.2%) automatically, and message **"1.2% Speed…"** appears on the screen.
10. Press the ENTER key, and then start measurement of the sensitivity value.
11. Confirm that the sensitivity value is with in specification, after the message **"<<Sensitivity Measurement Finish>>"**.

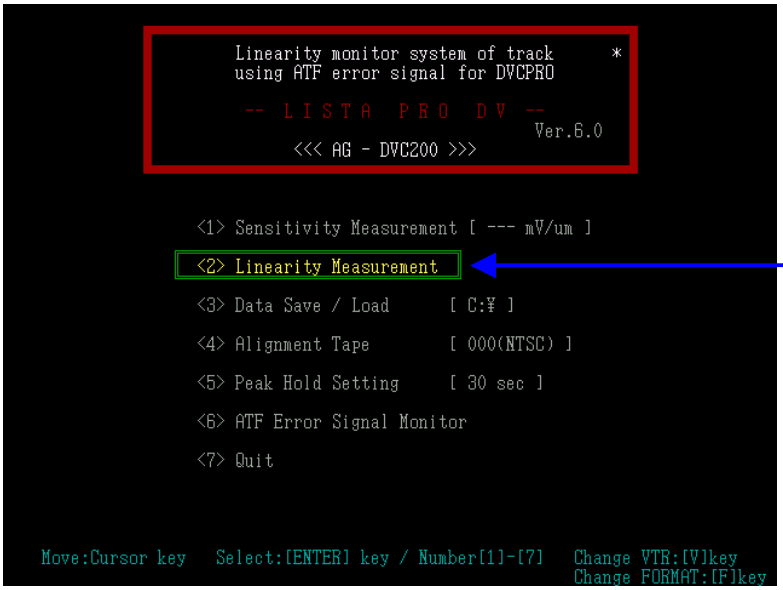
<<Sensitivity Measurement Finish>>

Sensitivity	**72.95 (mV/um)**
Sens.1	~~85.43 (mV/um)~~
Sens.1	85.48 (mV/um)

Confirm that the value of Sens.Value1 and Sens.Value2 in specification

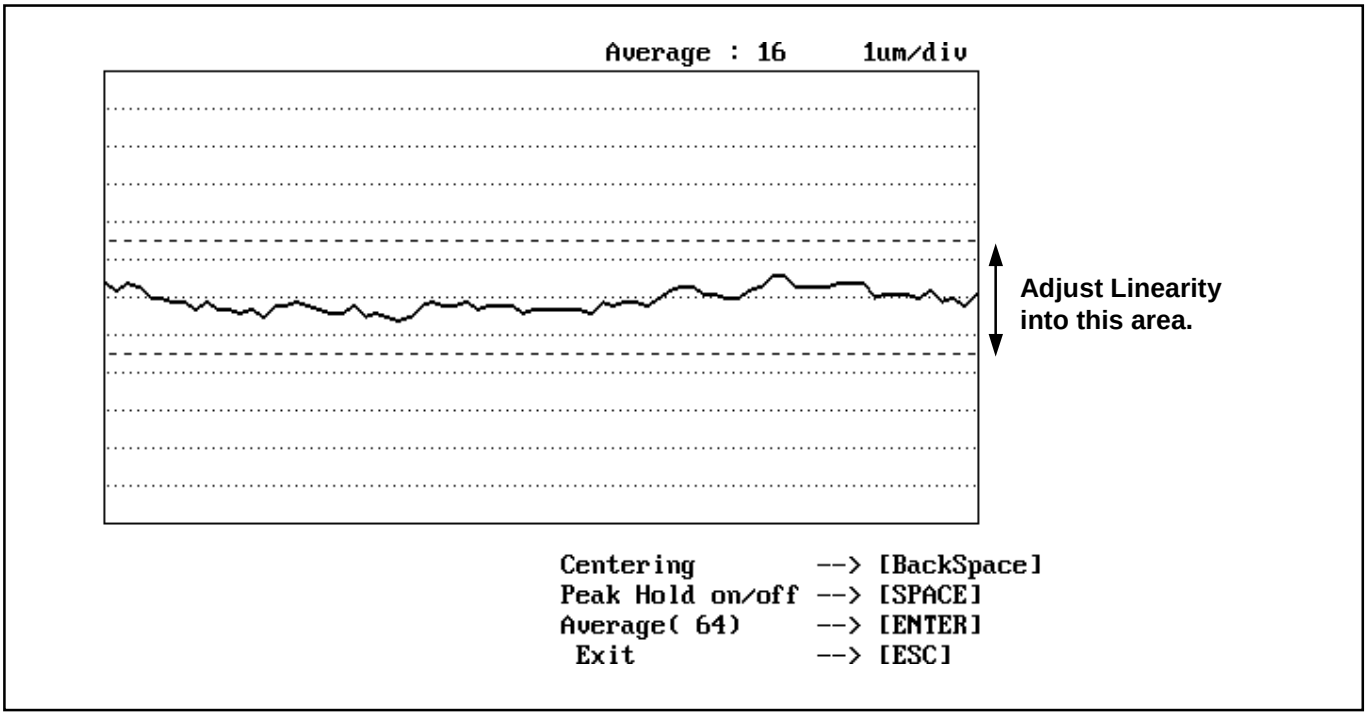
1-9. LISTA Linearity Adjustment

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1899 : Post Driver
SPEC.	Linearity : less than 3µm



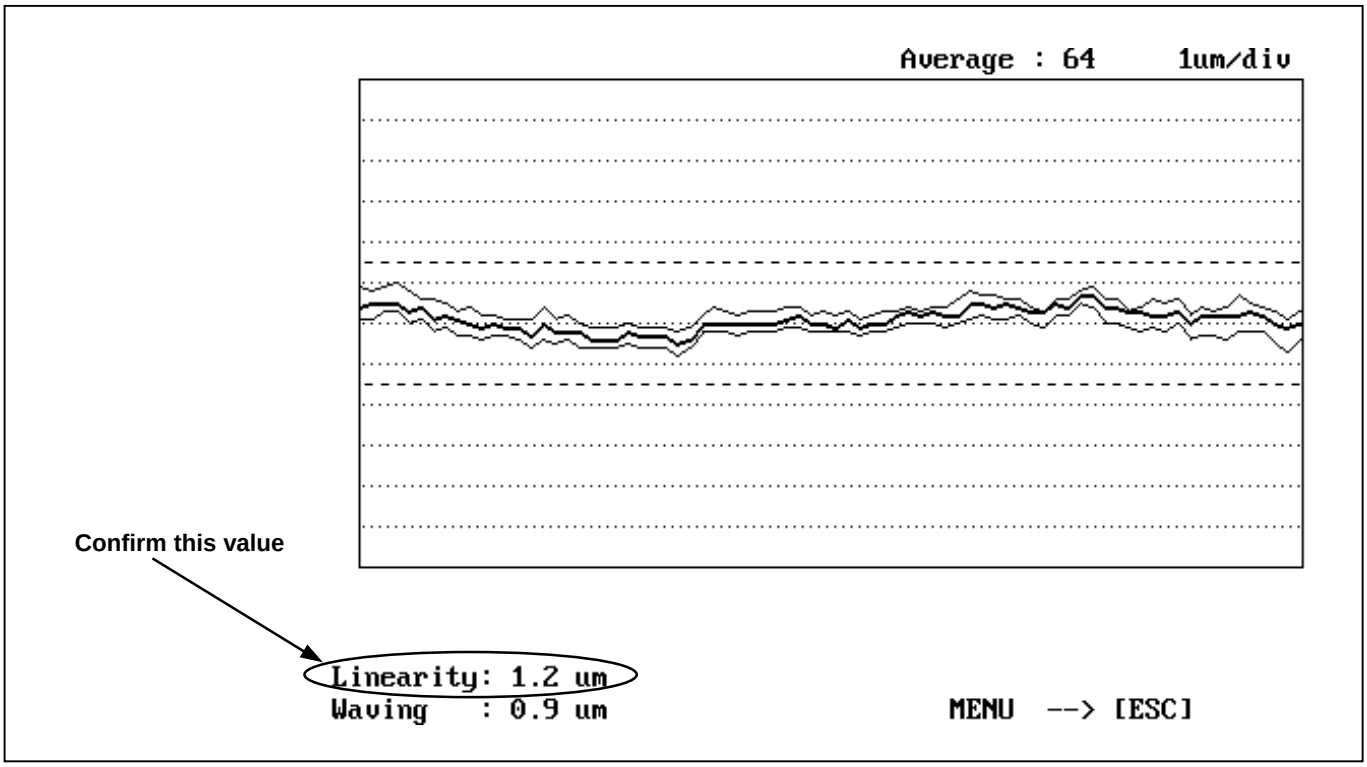
Select at Linearity Measurement.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **"VCR FUNCTION MENU"**.
4. Open the **"8. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"LINEARITY"** and press the MULTI-DIAL.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** is appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **"ADJUST MENU"** screen.
8. Select item **"<2> Linearity Measurement"** on the LISTA main menu, and press **"ENTER"**, then the Linearity Waveform appears.
9. When the waveform as shown in figure below is displayed on the screen, press the **"BS (Back Space)"** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is becomes flat as possible, and it should be within specification.
   (Adjust linearity waveform in the red dot line on the screen.)



POINT :
The left side of the waveform (entrance side) is adjusted by the height of S1 post and the right side of the waveform (exit side) is adjusted by the height of T2 post.
When the post driver is removed from upper part of post, linearity waveform is changed.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of the linearity waveform has not changed.

10. Press **"SPACE"** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finishing the Peak Hold, press **"SHIFT"** and **" } "** key simultaneously on the Key Board, then the numerical values of **"Linearity"** and **"Waving"** is displayed on left lower portion of screen. And confirm the numerical value of **"Linearity"** is in the specification. If the **"Linearity"** is out of specification, adjust height of S1 and T1 post.
12. After this measurement is finished, press the ESC key to return to the main menu.

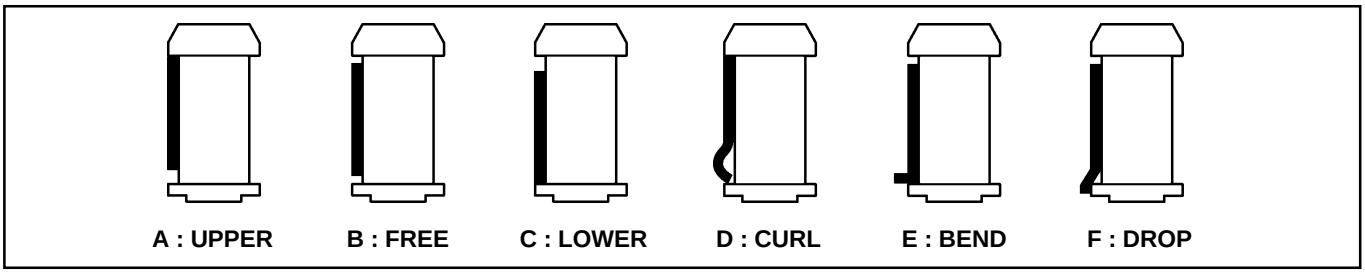


1-10. Tape Pass Confirmation

1. Play back the Blank tape and confirm that the tape passes without curling at the upper and lower guides of the following posts in the Play modes as shown in below table.

NOTE: The tape pass can not be confirm when the mechanism unit is install in unit. Connect the mechanism unit by the extender cable and confirmed.

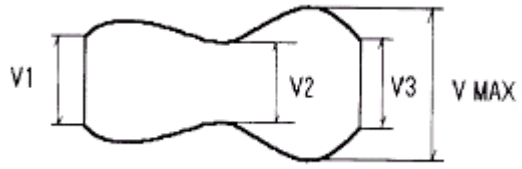
Post Name	Tape limit (refer to figure)					
	A	B	C	D	E	F
S1 post	NG	NG	OK	NG	NG	NG
S2 post	OK	OK	NG	NG	NG	NG
T2 post	OK	NG	NG	NG	NG	NG
T3 post	NG	OK	OK	NG	NG	NG



2. Confirm that the tape damage does not occur on tape at S1, T1 and T2 post by loading and unloading.
3. If curl and tape damage occurred at S1 and T2 post, adjust height of post by post driver.

1-11. Self-REC/PLAY Envelope Waveform Confirmation

1. Connect the EVR tools (refer to item ”1-4. Connection of EVR Tools”).
2. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board (VFK1308P).
3. Record a color bar signal.
4. Play back the just recorded portion and confirm that the envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

Make as flat as possible

5. Confirm that the envelope is within the following specification, when the mode is changed as follows.
   STOP→PLAY: Envelope appears completely within 2 seconds and stable.
   REV→PLAY : Envelope appears completely within 2 seconds.
6. Confirm that the shape of envelope is diamond style.
7. If it is out of the specification, adjust height of the S1 and T2 Post.

2. MECHANICAL PARTS REPLACEMENT PROCEDURE

2-1. Cleaning Roller Unit

(Removal)

1. Remove the Mechanism Unit.
2. Unhook the hooking portion (C) of Cleaning Roller Unit to remove fixed Flexible cable.
3. Unscrew the 2 screws (A) and (B), then remove the Cleaning Roller Unit.

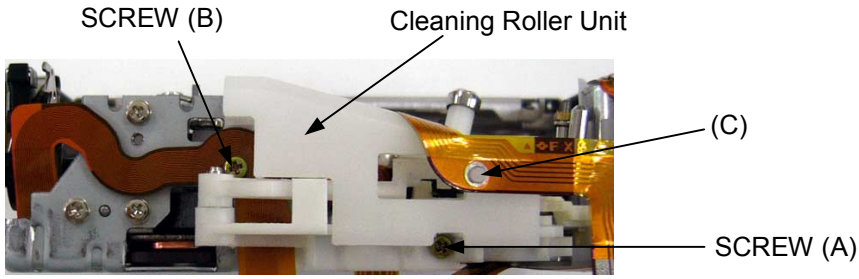


Figure A

(Installation)

1. Hook the portion (B) of Cleaning Roller Unit to portion (A) of Mechanism Chassis and install the Cleaning Roller Unit. Then be careful the Release Arm does not run onto the part at end of sub chassis (C) as shown in figure B.

NOTE: Supply the voltage to loading motor and the Cleaning Roller Unit is installed in the mechanical position as shown in figure (B) to simple installation (No problem it installation in loading complete position).

2. Tighten the Screw (A) and (B) as shown in figure A. When tighten the screw (B), flexible cable also tighten up together as shown in figure A.
3. The projection (C) of Cleaning Roller Unit should be matched to the hole of the flexible cable as shown in figure A.

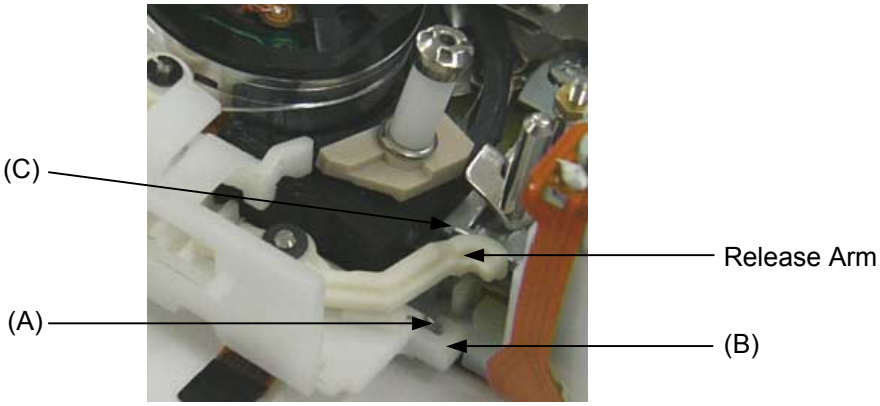


Figure B

(Confirmation of Operation)

1. To confirm that the Cleaning Roller operates normally on the Mechanism Unit, supply the voltage to loading motor and confirm that the Cleaning Roller touches the Cylinder in loading operation.
2. To confirm that the Cleaning Roller operates normally after the Mechanism Unit is installed to Unit, remove the Mech. Cover (R) on Cassette Cover to confirm the Cleaning Roller in window as shown in figure (C). Insert the cassette tape to Unit and confirm that the Cleaning Roller touches the Cylinder in loading operation.



Figure C

SECTION 4

ELECTRICAL ADJUSTMENT

CONTENTS

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   1-1. Modification procedure of VFK1309 ..... ELE-1
   1-2. Connection ELE-1
   1-3. System Hook up Procedures ELE-2
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6. CAMERA ADJUSTMENT PROCEDURE ELE-18
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   6-2. Iris PWM Bias Adjustment (AUTO) ELE-19
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   6-5. OISu Adjustment (AUTO) ELE-22
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   6-7. CCD white scratch damage revision Adjustment (AUTO) ELE-25
   6-8. White Balance Adjustment (AUTO) ELE-26
      6-8-1. Indoor (3100K) White Balance Adjustment (AUTO) ELE-26
      6-8-2. Outdoor (5100K) White Balance Adjustment (AUTO) ELE-27
      6-8-3. Cool white (4500K) White Balance Adjustment (AUTO) ELE-29
      6-8-4. Warm white (3600K) White Balance Adjustment (AUTO) ELE-31
   6-9. White Shading Adjustment ELE-33
7. VTR ADJUSTMENT PROCEDURE ELE-35
   7-1. Sensitivity adj of Tape sensors Adjustment (AUTO) ELE-35
   7-2. PG shifter Adjustment (AUTO) ELE-36
   7-3. Luminance level Adjustment ELE-38
   7-4. Chroma level Adjustment ELE-38
8. LCD ADJUSTMENT PROCEDURE ELE-39
   8-1. PLL Adjustment ELE-39
   8-2. Pedestal Level Adjustment ELE-39
   8-3. Contrast Adjustment ELE-40
   8-4. Sub contrast Adjustment ELE-41
   8-5. White balance Adjustment ELE-42
9. EVF ADJUSTMENT PROCEDURE ELE-43
   9-1. EVF PLL Adjustment ELE-43
   9-2. EVF Contrast Adjustment ELE-43
   9-3. EVF Pedestal Level Adjustment ELE-44
   9-4. EVF Sub contrast Adjustment ELE-45
   9-5. EVF White balance Adjustment ELE-46

ELECTRICAL ADJUSTMENT PROCEDURE

1. ADJUSTMENT SYSTEM

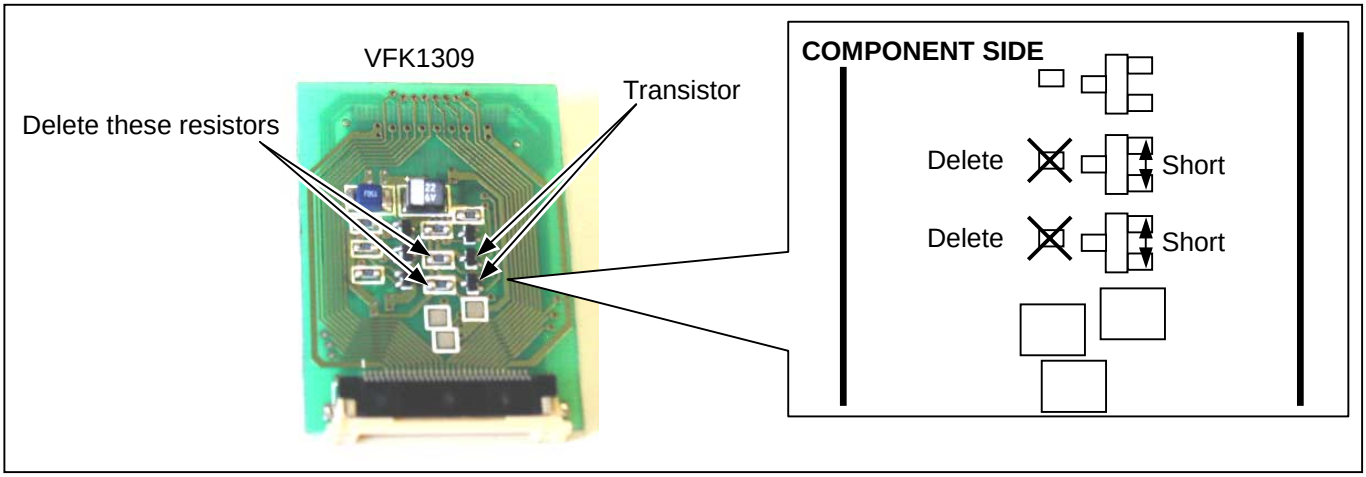
When performing the electrical adjustment, the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
Connector Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
DC Cable	VJA1128 or LSJ0310	1	
9pin RS232C cross cable	---	1	
AC Adapter	---	1	
Personal Computer	---	1	

NOTE:
1. VFK1309 can be used for this adjustment system except LCD adjustment.
2. If you have VFK1309, it can be modified to VFK1309A as following specification.

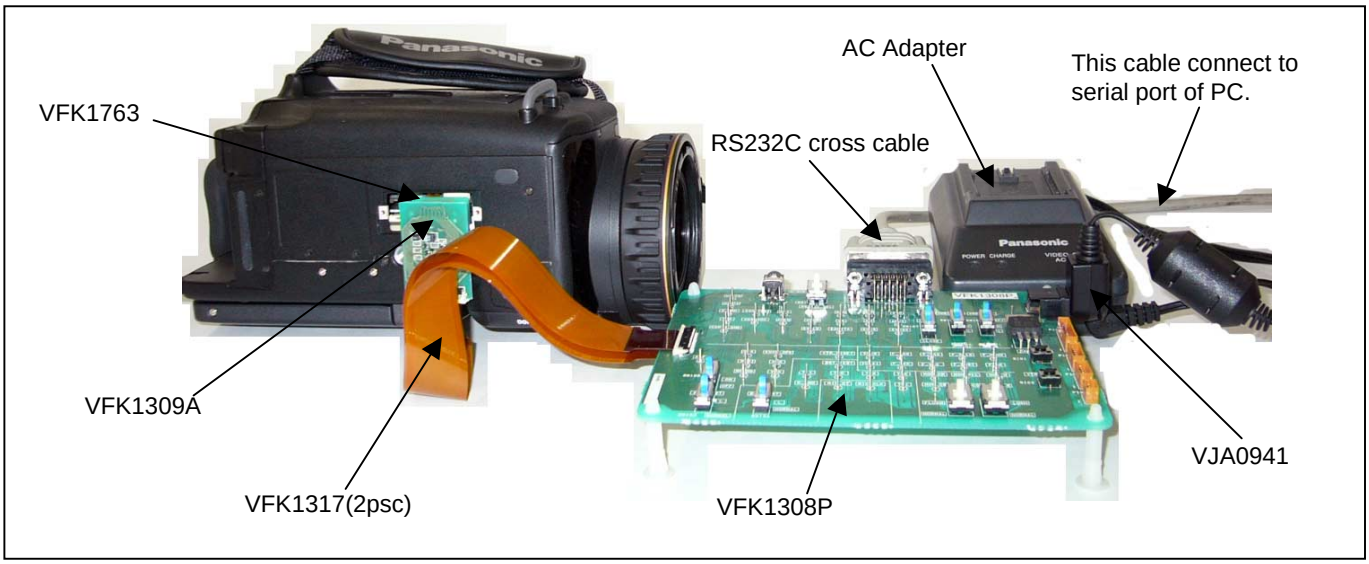
1-1. Modification procedure of VFK1309

1. Delete 2 pieces of resistor as shown in figure.
2. Short between emitter and base of 2 pieces of transistor as shown in figure.



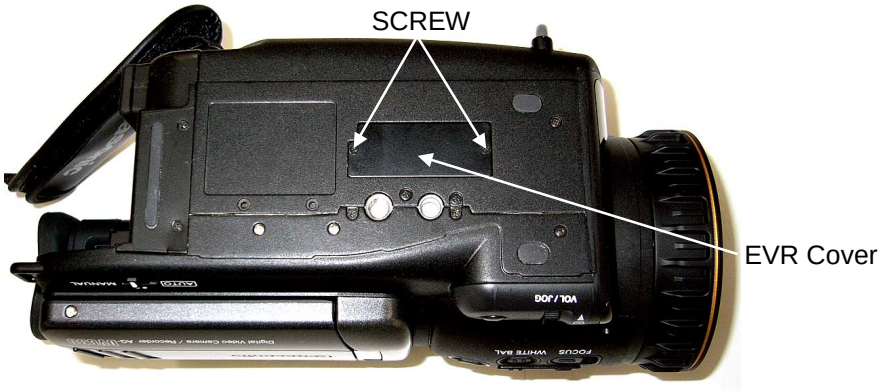
1-2. Connection

Please refer to next item 1-3 as detail explanation.



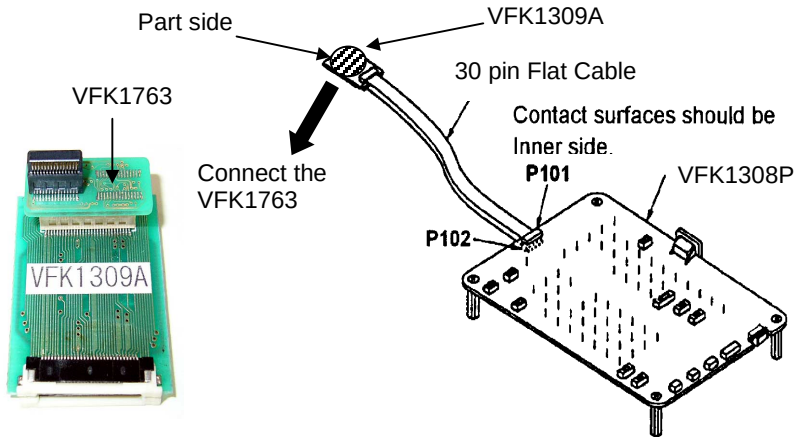
1-3. System Hook up Procedures

1. Unscrew the 2 screws and remove the EVR cover.



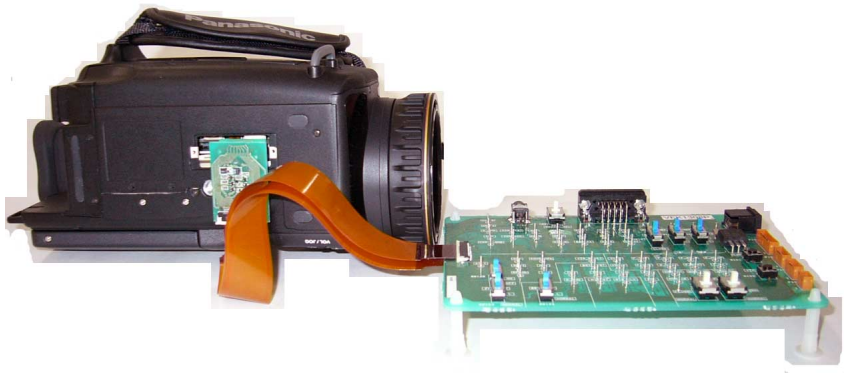
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figures. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is installed backwards, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in camera recorder. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When connecting VFK1763 to the EVR connector, be careful that it is installed in the correct direction. Please follow as shown in the figure.



4. Supply DC6V-9V to the Measuring Board (VFK1308P). Please use the DC cable (VJA0941) and AC Adapter to supply DC voltage to Measuring Board.
5. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.
6. Unless otherwise specified on the message of the EVR software or this adjustment procedure, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	NORMAL
BST TEST (SW104)	NORMAL
SW107	CENTER position
SW108	H
SW105	H
SW106	OFF
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT

Below indicated tools are required to perform each adjustment in addition to tools in introduced in item1.

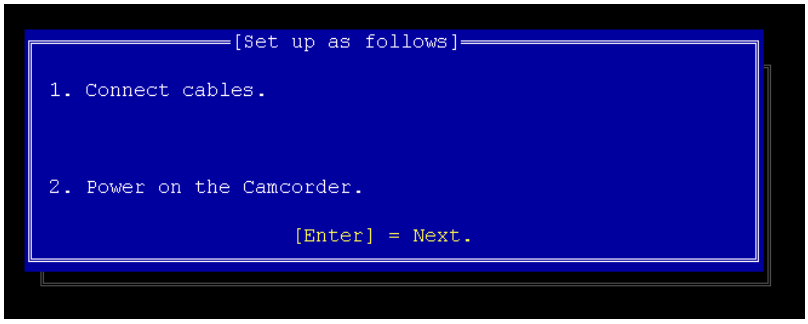
Adjustment	Item	Required Tool	Remark
Camera	Zoom SW center value adjustment	Unnecessary	**NOTE**
	Iris Hall Amp (Auto)	Unnecessary	
	Iris PWM Bias (Auto)	Unnecessary	
	ND Hall Amp (Auto)	Unnecessary	
	ND PWM Bias (Auto)	Unnecessary	
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	43mm Attachment Ring (VFK1164TAR43)	
		Collimator Set (VFK1164TCM01)	
	CCD White scratch damage revision (Auto)	Unnecessary	
	White Balance (3100K)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB80) (VFK1342)	PAL model only
		CC filter (CC C20) (VFK1887)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		CC filter (CC C10) (VFK1886)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Shading	Halogen lamp	
VTR	Sensitivity adj of Tape sensor (Auto)	Tape End/Beg. Detect Cassette (VFK1217)	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only
	Luminance Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
	Chroma Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
LCD	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	
EVF	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	

NOTE: The Zoom SW center value adjustment is contained in Camera adjustment menu but it is not on adjustment of the camera system.

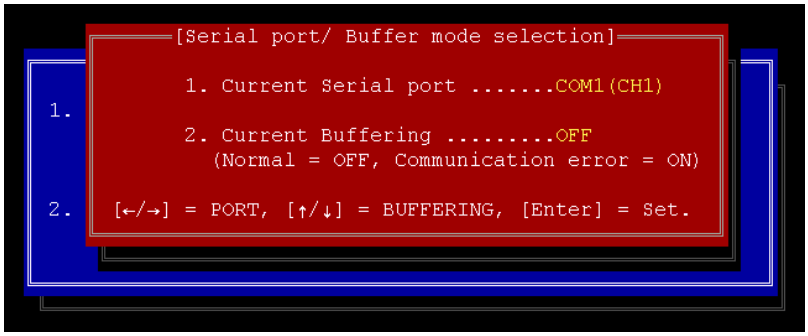
3. PC EVR (ADJUSTMENT) SOFTWARE

3-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. Copy all files of EVR software (VFK1908:NTSC / VFK1909:PAL) to created directly on PC.
2. Restart the PC in DOS mode.
3. In case NTSC software, type **"dvc30p"** and press ENTER key, then EVR software boot up.
   In case PAL software, type **"dvc30e"** and press ENTER key, then EVR software boot up.
4. Wait for a few seconds so that the EVR adjustment program is started.

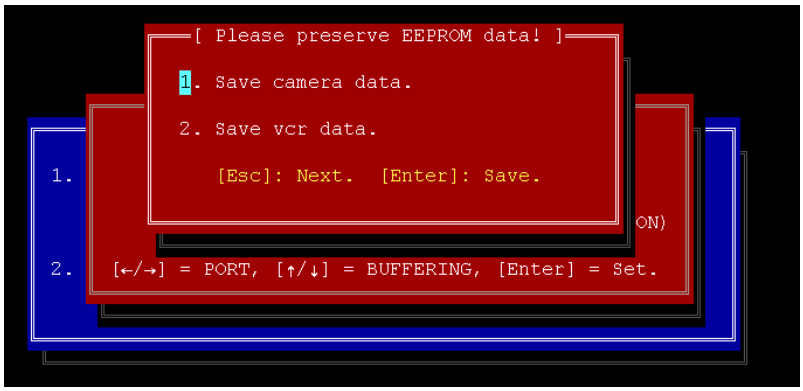


PRESS ENTER KEY



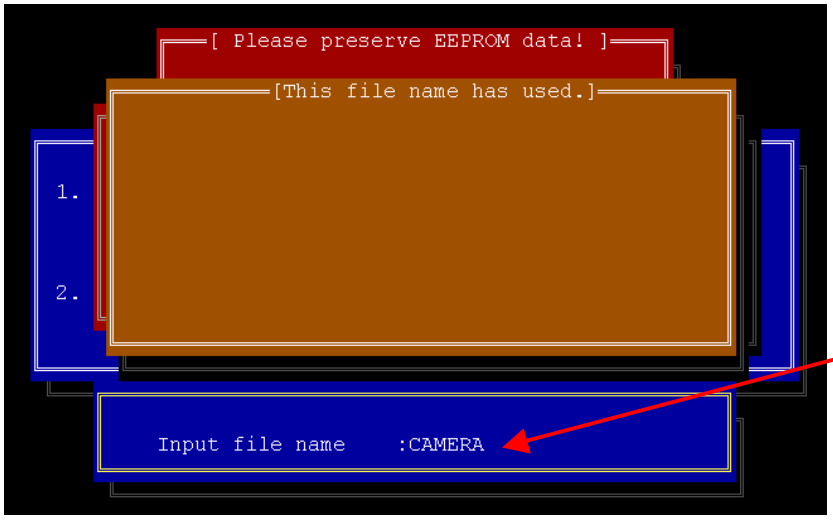
PRESS ENTER KEY

NOTE:
In case of communication error occurred in DOS mode, please try to boot an EVR software in MS-DOS WINDOWS screen.

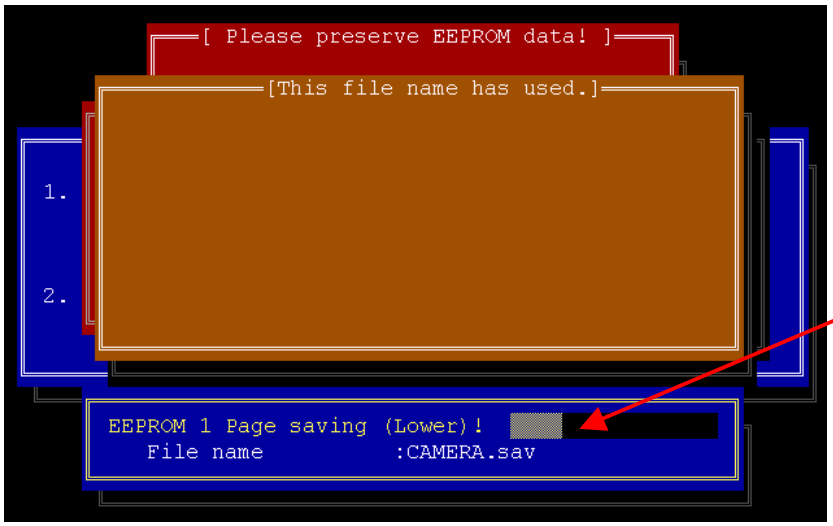


Normally this screen is appears. We recommended storing the EEPROM data before starting adjustment. If you want to skip storing the data, PRESS ESC KEY, then go storing to Main menu.
NOTE: It is only adjustment data that is actually saved.

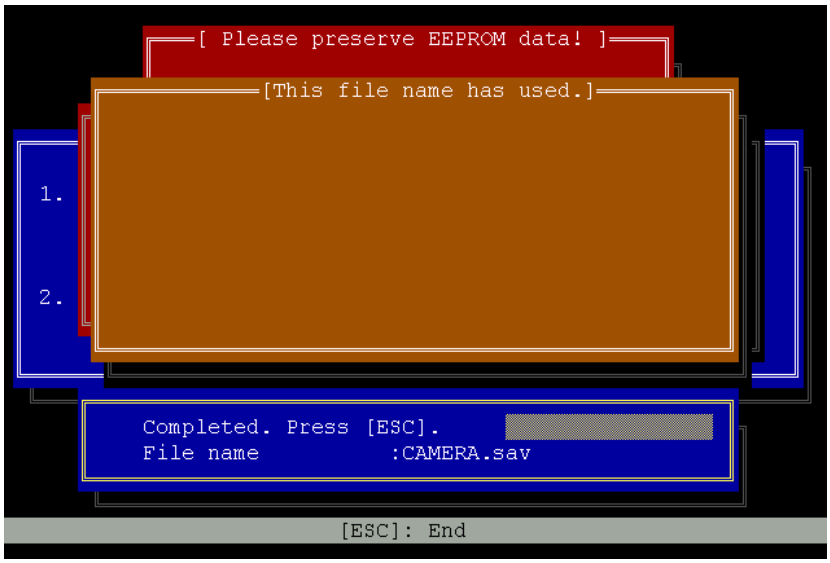
In case of select No.1



Input file name and PRESS ENTER KEY.



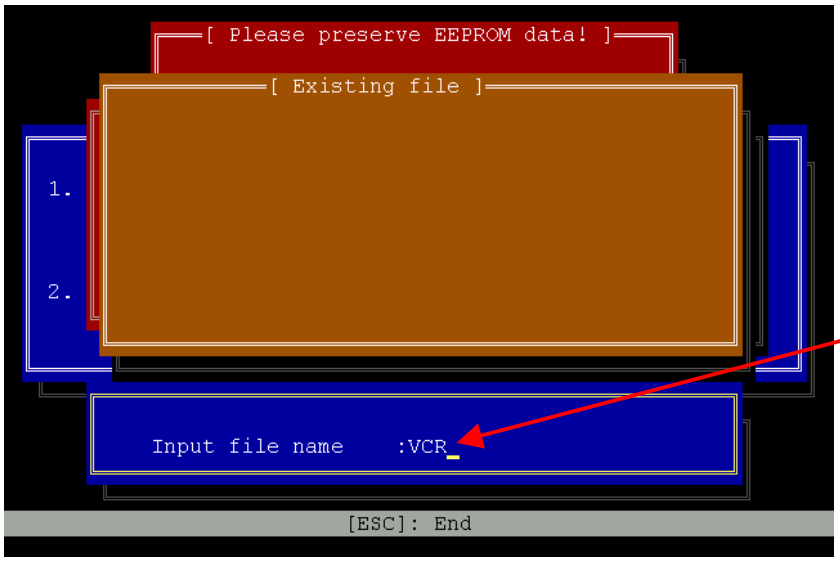
Saving the data is started.



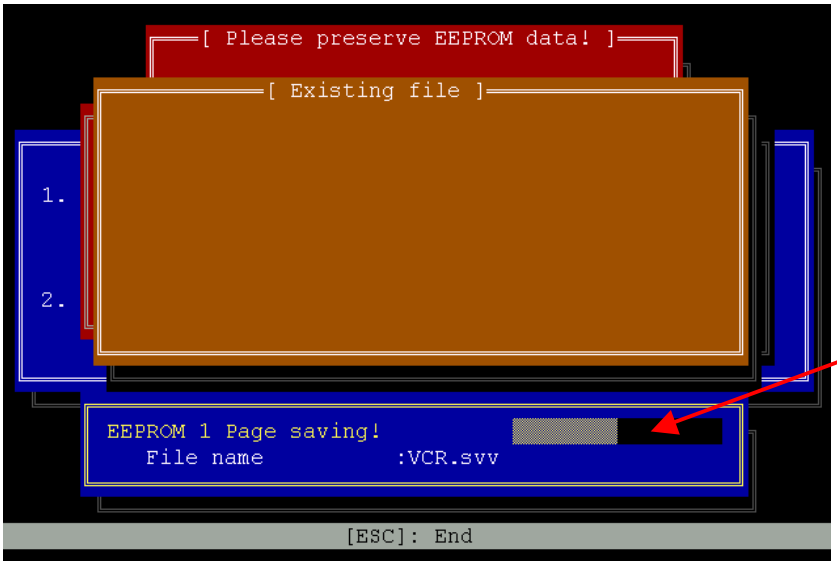
When the data is stored completed, this screen is appears. PRESS ESC KEY.



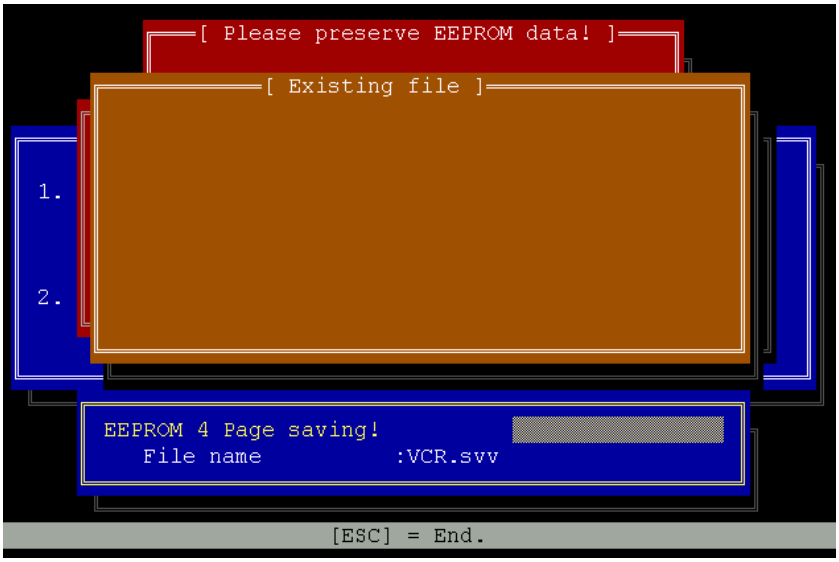
Return to this screen and in case of select No.2, PRESS ENTER KEY.



Input file name and PRESS ENTER KEY.



Saving the data is started.

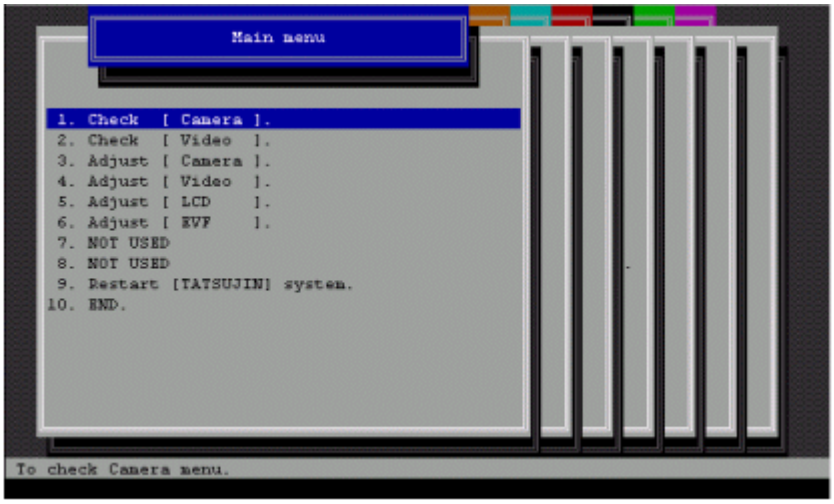


When the data is stored completed, this screen appears. PRESS ESC KEY.

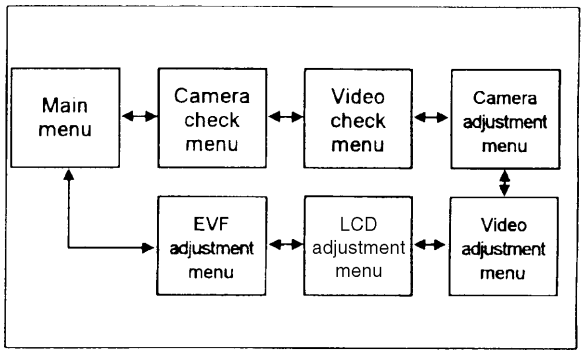
3-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press **"ENTER"** Key. the Sub Menu will be displayed.

NOTE: Menu (pages) 3,4,5 and 6 are needed for adjustment.

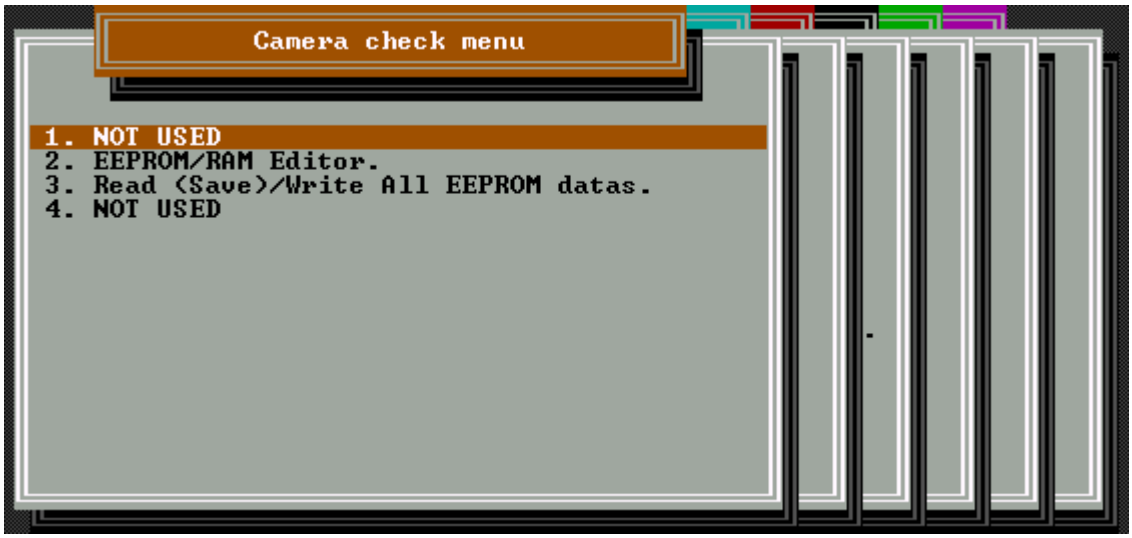


With using ←→ keys, the menu can also be changed.

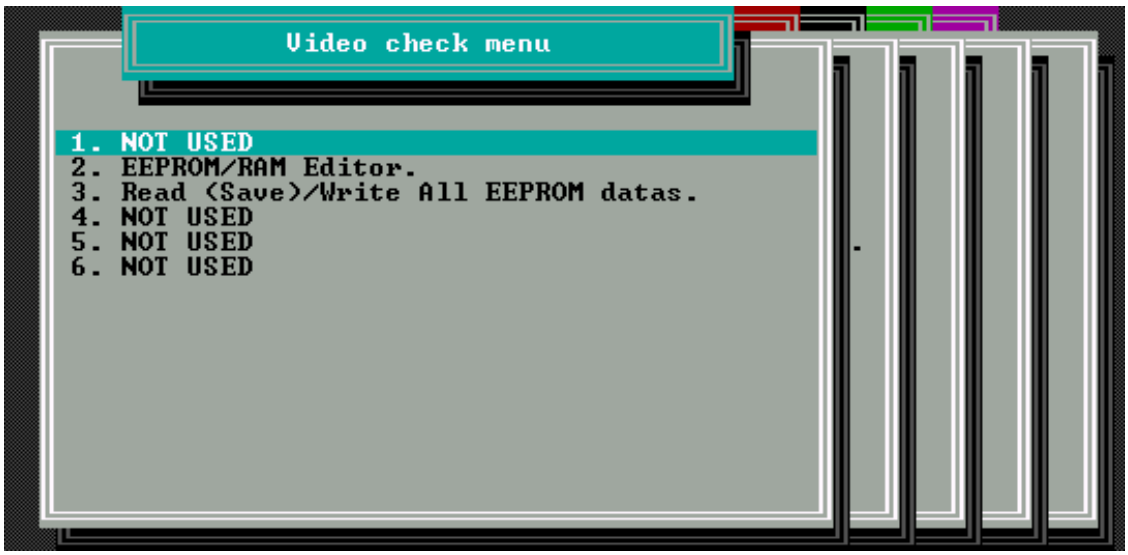


3-3. Introduction of the Sub Menu

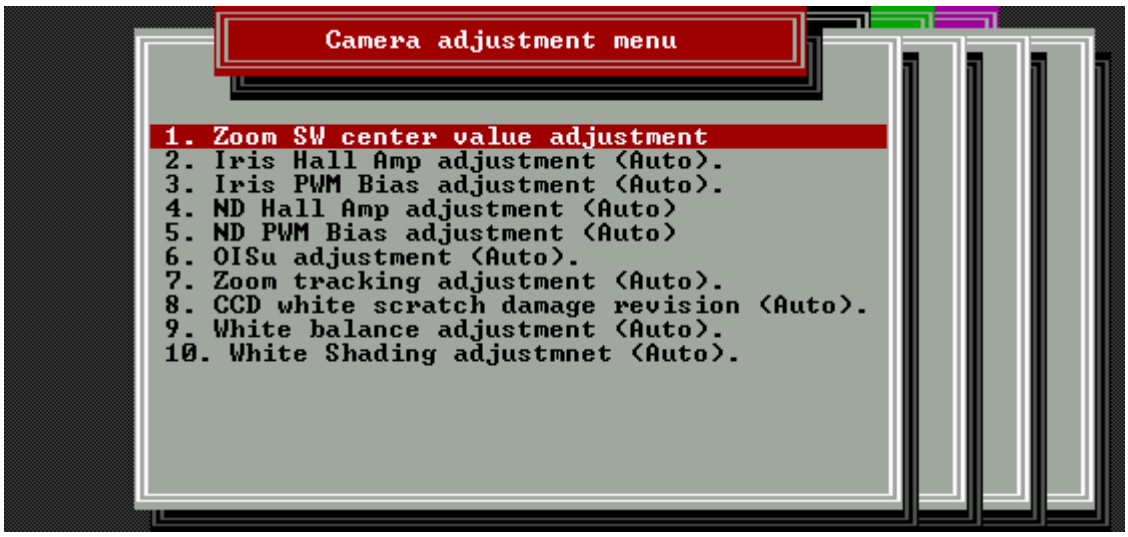
1) Camera Check Menu



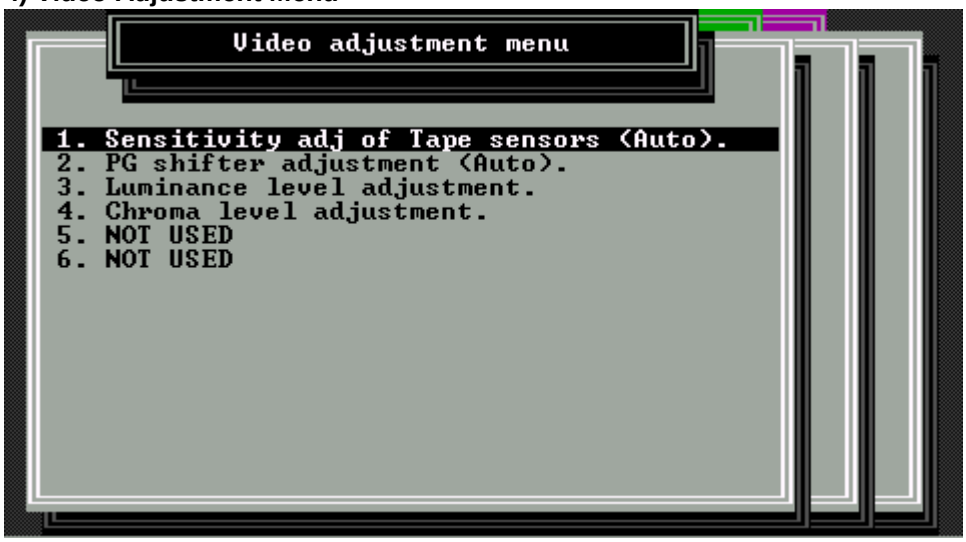
2) Video Check Menu



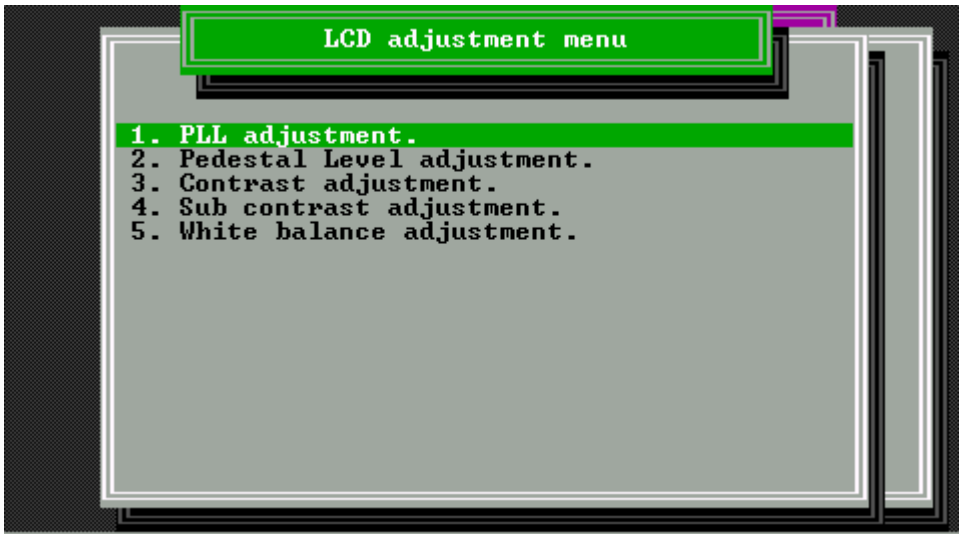
3) Camera Adjustment Menu



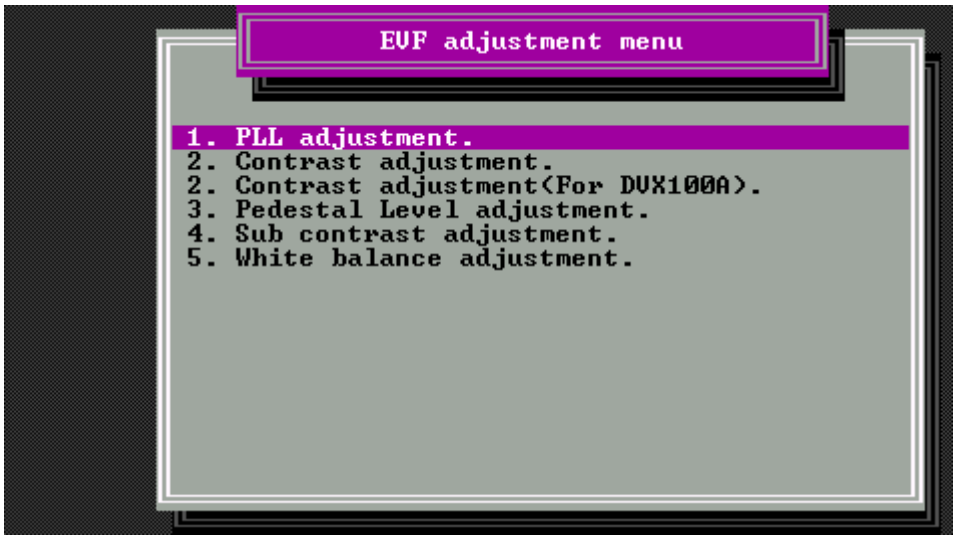
4) Video Adjustment Menu



5) LCD Adjustment Menu



6) EVF Adjustment Menu



4. EEPROM

All adjustment data has been stored in the EEPROM.
There are two EEPROM in this camera recorder as shown in the table below.

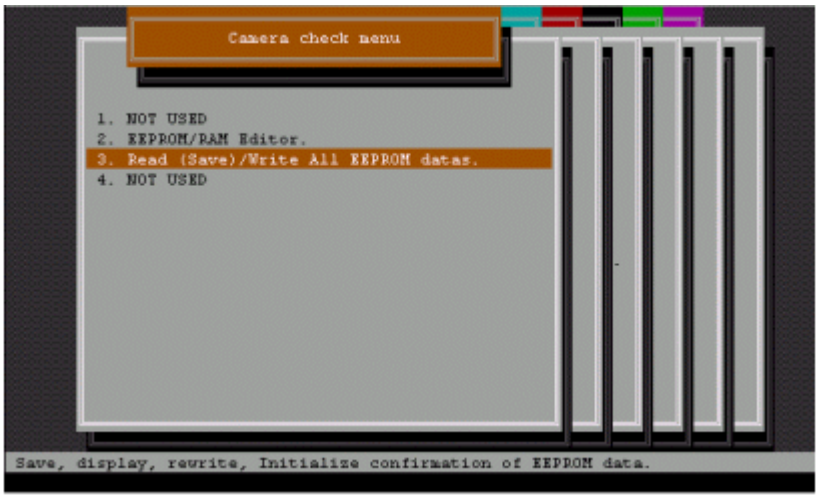
NAME	REF. No.
CAMERA EEPROM	IC3006 (CAMERA C.B.A.)
VTR EEPROM	IC2008 (VTR C.B.A.)

NOTE:
To save the EVR adjustment data to the EEPROM, follow items 4-1, 4-2, and 4-3. There is also additional data stored in this EEPROM (This EVR software can save or write only adjustment data).

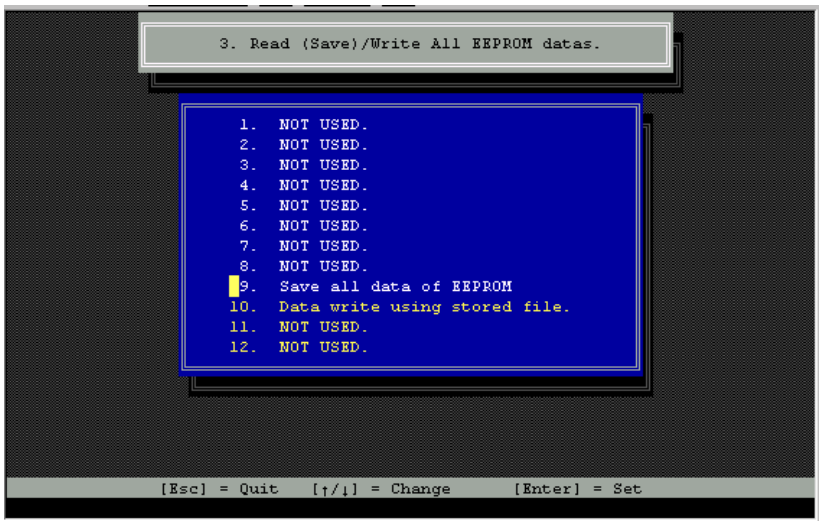
NOTE:
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

4-1. How to Save Camera Adjustment Data

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.



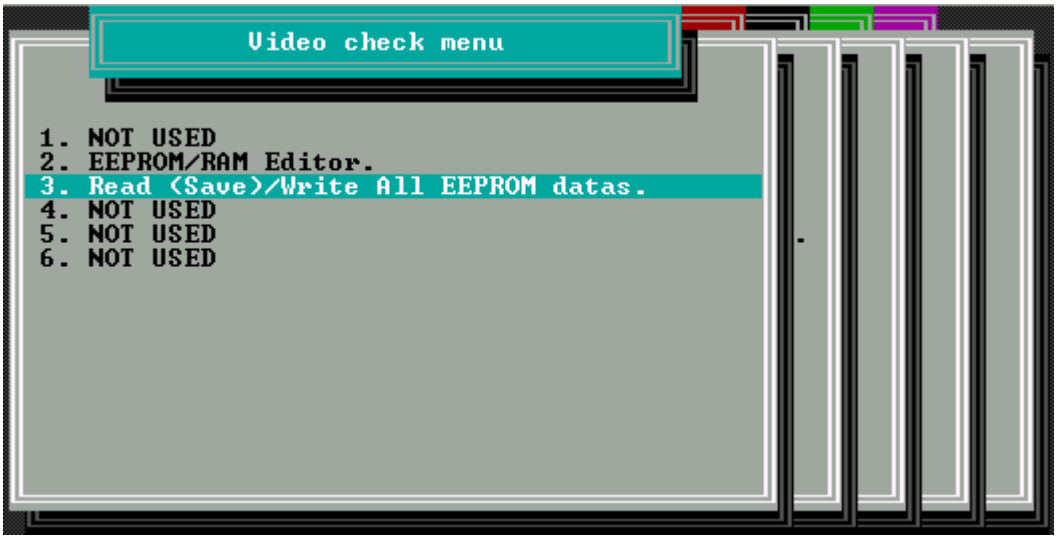
3. Select **"9. Save all data of EEPROM"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.



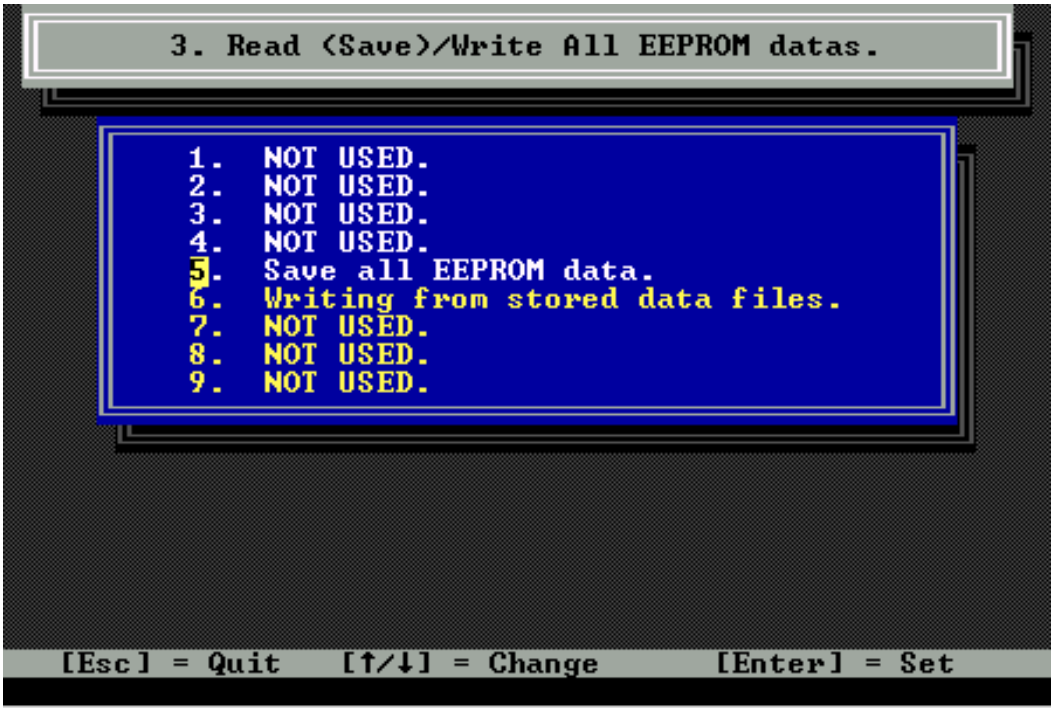
4. Type the File name and, then press the **"Enter"** key. The data of adjustment value can be stored in the personal computer. (Please refer to item **"3-1. BOOT UP THE ADJUSTMENT SOFTWARE"**)

4-2. How to Save VTR Adjustment Data

1. Select **"Video Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Video check menu, and then press the **"Enter"** key.



3. Select **"5. Save all EEPROM data"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.



4. Type the File name, and then press the **"Enter"** key. The data of adjustment value will be stored in the personal computer.

4-3. REWRITE Adjustment Data

4-3-1. How to Rewrite Adjustment data on Camera C.B.A.

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.
3. Select **"10. Data write using stored file"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.
4. Type the saved file name, and then press the **"Enter"** key.
5. Select **"9. EEPROM ALL (2 Kbyte)"**, and then press the **"Enter"** key.
6. The adjustment data will be written in EEPROM (IC3006).

4-3-2. How to Rewrite Adjustment data on VTR C.B.A.

1. Select **"Video Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Video check menu, and then press the **"Enter"** key.
3. Select **"6. Writing from the stored data files"** in the **"3. Read (Save) / Write All EEPROM datas"** menu, and then press **"Enter"** key.
4. Type the saved file name, and then press the **"Enter"** key.
5. Select **"5. Write EEPROM (1024 byte)"**, and then press the **"Enter"** key.
6. The adjustment data can be written in EEPROM (IC2008).

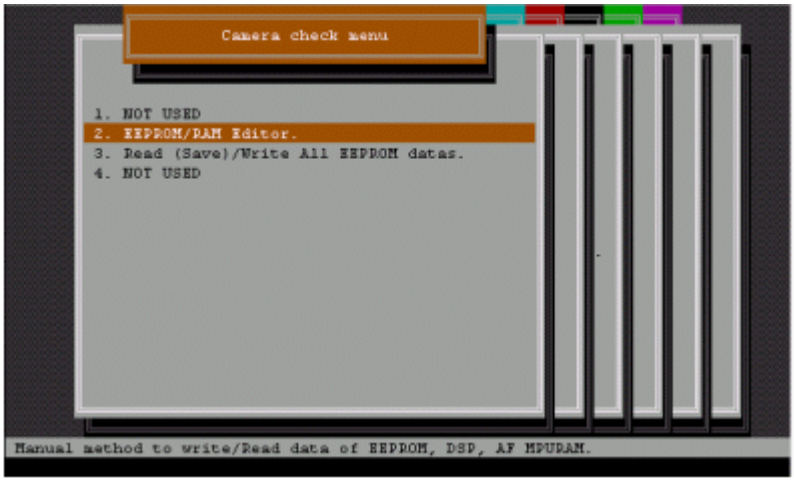
4-4. How to change the EEPROM Data.

EEPROM data can be changed individuality address unit. When changing EEPROM data with this EVR software, it uses item "2. EEPROM/RAM Editor" of each check menu.

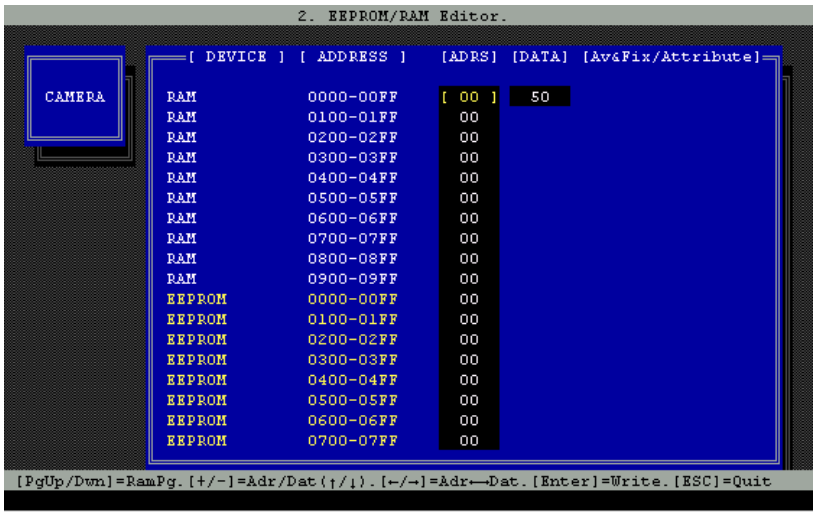
NOTE: Before changing the Camera or VTR EEPROM data, be sure to save ALL EEPROM data into the personal computer to avoid any accidental data loss. Regarding the saving method, refer to item 4-1 and 4-2 in this section.

4-4-1. How to change the CAMERA EEPROM data.

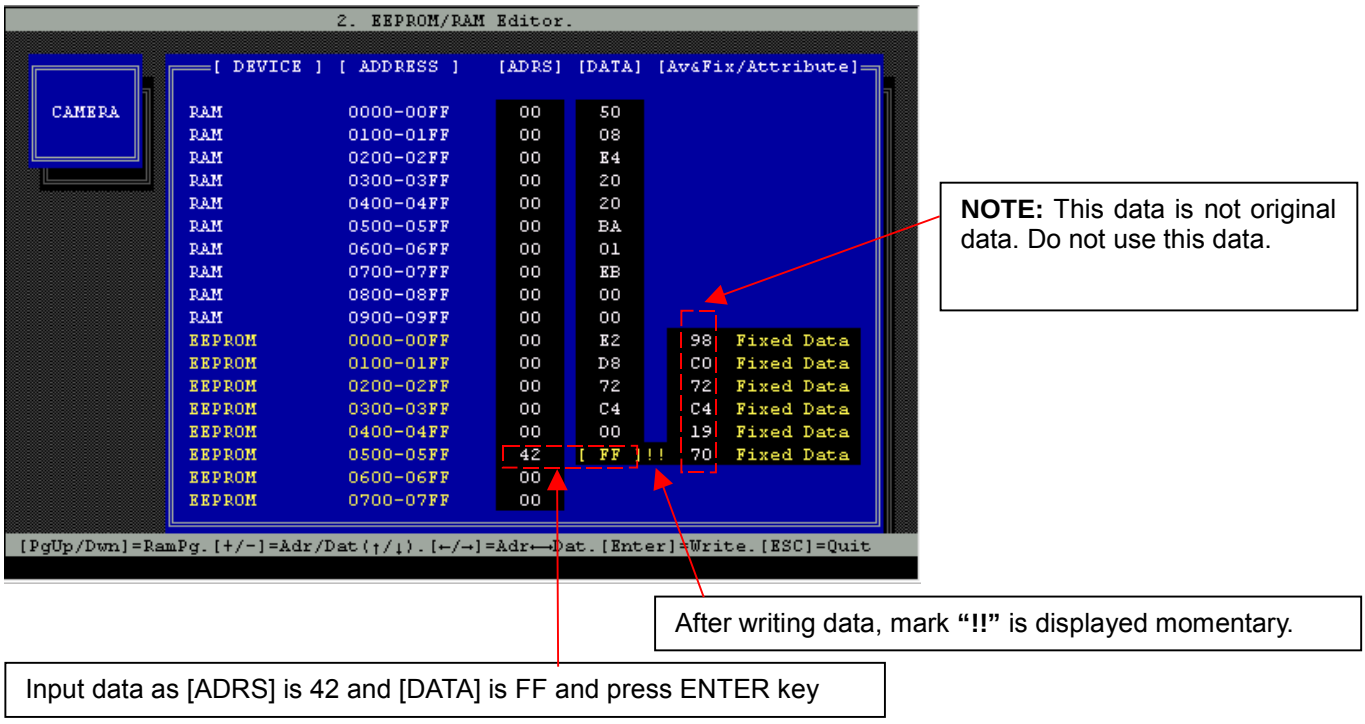
1. Boot up EVR software and open the Camera check menu.
2. Select **"2. EEPROM/RAM Editor"** and press **"ENTER"** key.



3. Below indicated screen is displayed.



4. In case of data is change to FF from 70 on address 0542, select a line **"EEPROM 0500-05FF"** by arrow key (↑/↓) and input a value as 42 to column [ADRS]. Next cursor is moved to column [DATA] by arrow key (→/←) and input a value as FF. And press ENTER key to write to EEPROM.



NOTE: This data is not original data. Do not use this data.

After writing data, mark **"!!"** is displayed momentary.

Input data as [ADRS] is 42 and [DATA] is FF and press ENTER key

5. Please change the other part of address data follow the above description.

NOTE: The address is indicated as 4 digits of numerical value. Select the line based on first 2 digit and value behind 2 digit is input value to column [ADRS].

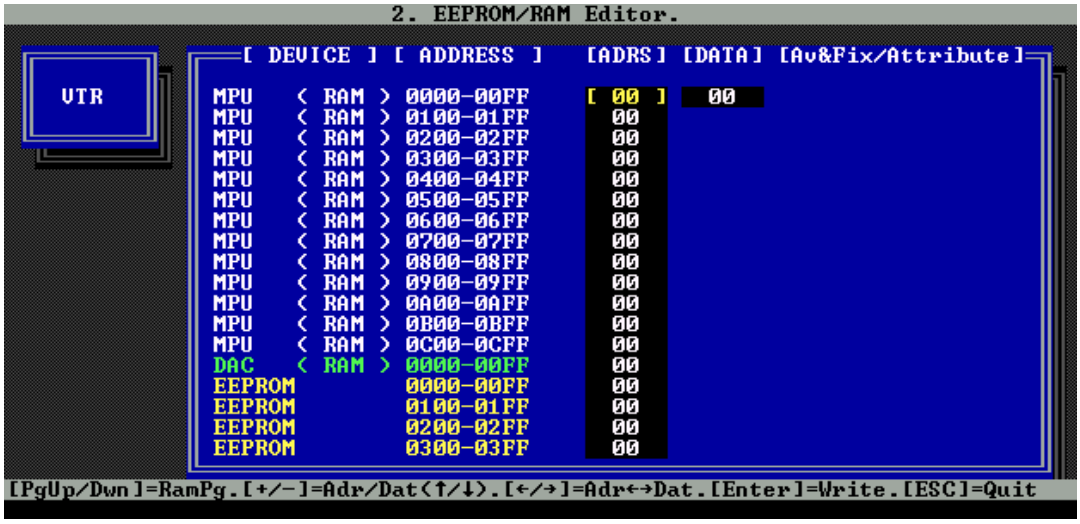
EEPROM	0000-00FF ← In case of 00ED, select the line of **"0000-00FF"**.
EEPROM	0100-01FF
EEPROM	0200-02FF
EEPROM	0300-03FF
EEPROM	0400-04FF
EEPROM	0500-05FF ← In case of 0542, select the line of **"0500-05FF"**
EEPROM	0600-06FF
EEPROM	0700-07FF

4-4-2. How to change the VTR EEPROM data.

1. Boot up EVR software and open the Video check menu.
2. Select **"2. EEPROM/RAM Editor"** and press **"ENTER"** key.



3. Below indicated screen is displayed.



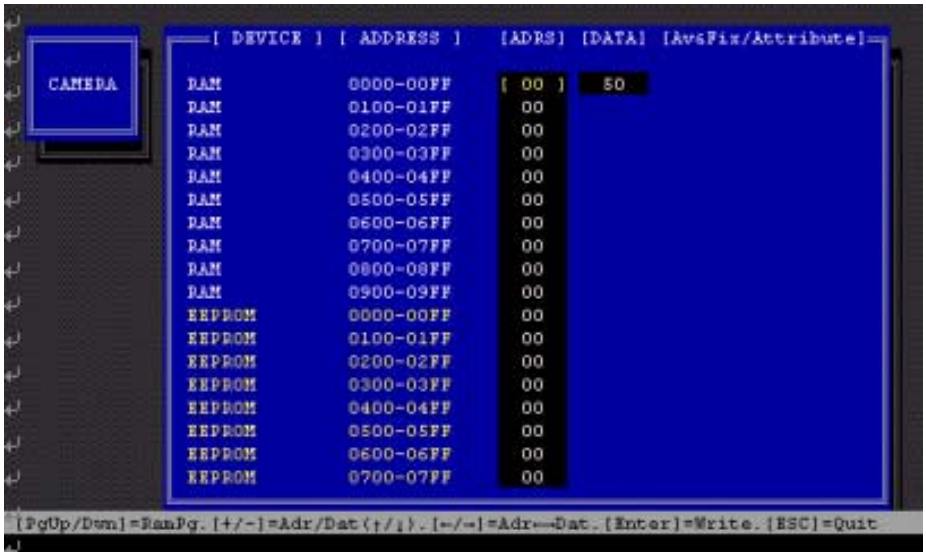
4. How changing the EEPROM data is the same as CAMERA EEPROM refer to previous item 4-4-1.

5. ZOOM SW Center Value Adjustment

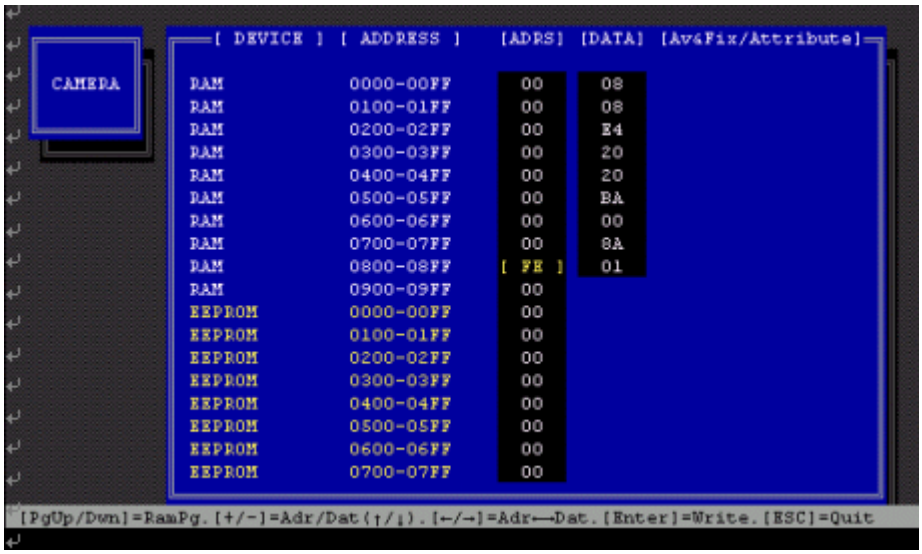
Be sure to save the CAMERA adjustment data into the Personal Computer, before performing adjustment.

This adjustment has to be performed, when the CASSETTE COVER UNIT or ZOOM SW in CASSETTE COVER UNIT is replaced.

1. Open the **"Camera adjustment menu"**.
2. Select **"1. Zoom SW center value adjustment"** in the camera adjustment menu, and then press **"ENTER"** key.
3. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press **"ENTER"** key.
4. Below indicated screen is displayed.



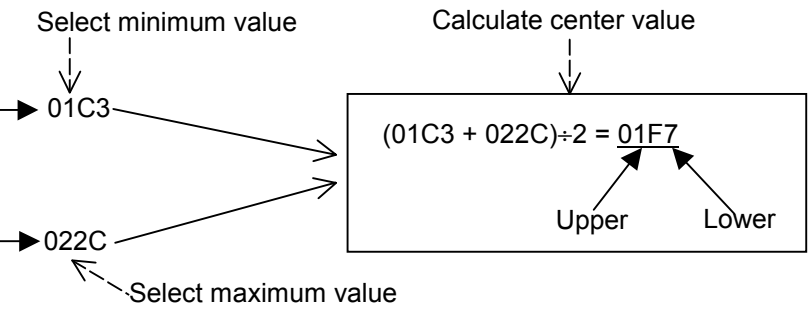
5. Select a line **"RAM 0800 - 08FF"** by arrow key (↑/↓) and input a value as FE to column [ADRS].
6. Press Tele side of zoom switch on Grip Cover side to fully Tele position and release a finger slowly from button.
7. Write down displayed numerical value in column [DATA].



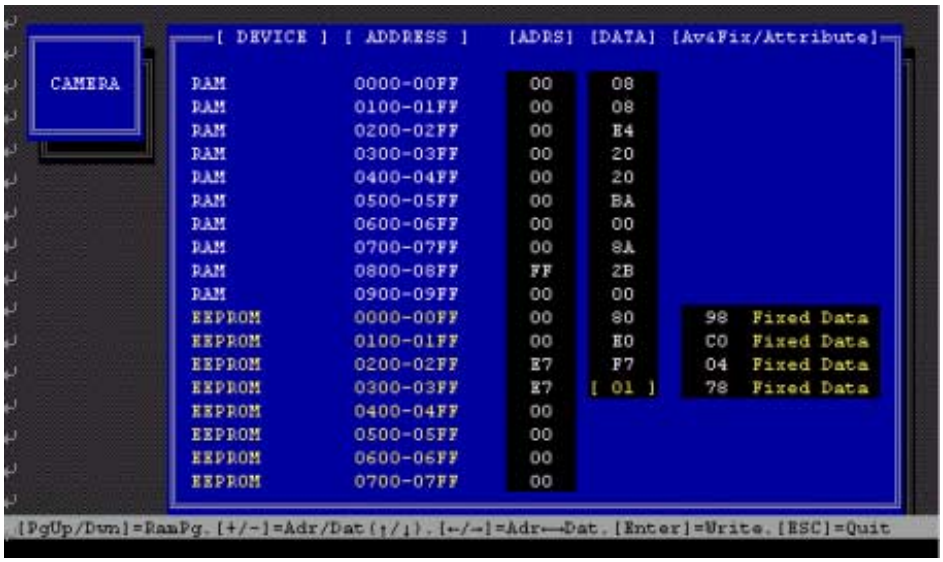
8. Input a value FF to column [ADRS] on line **"RAM 0800 - 08FF"** .
9. Write down displayed numerical value in column [DATA].
10. Repeat step 5 to 9 twice to write down the value.
11. Select the minimum measurement value.
12. Press Wide side of zoom switch on Cassette Cover side to fully wide position and release a finger slowly from button and repeat step 5 to 9 three times.
13. Select the maximum measurement value.

<For example>

---	FE (Upper)	FF (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B



14. Calculate center value of minimum and maximum value.
15. Select a line **"EEPROM 0200 - 02FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
16. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as lower data value (for example: F7 as indicated as above). And press ENTER key to write to EEPROM.
17. Select a line **"EEPROM 0300 - 03FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
18. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as upper data value (for example: 01 as indicated as above). And press ENTER key to write to EEPROM.



6. CAMERA ADJUSTMENT PROCEDURE

Be sure to save the Camera adjustment data into the Personal Computer, before performing adjustment.
Perform all PC-EVR adjustments, by referring to procedures on PC screen.

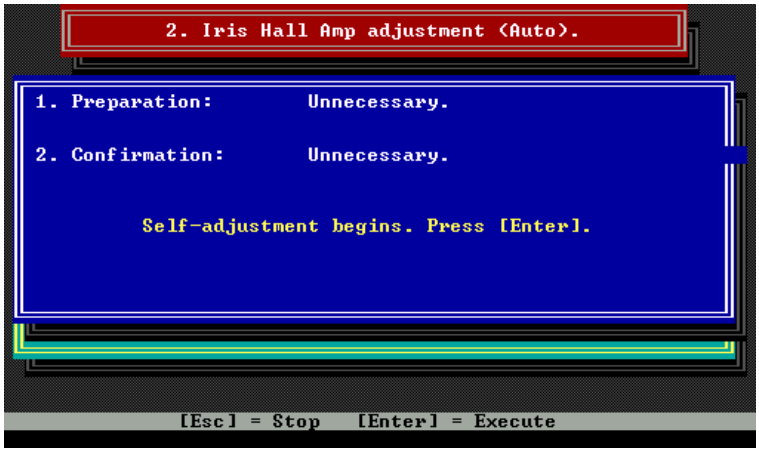
6-1. Iris Hall Amp Adjustment (AUTO)

This adjustment is automatically executed.

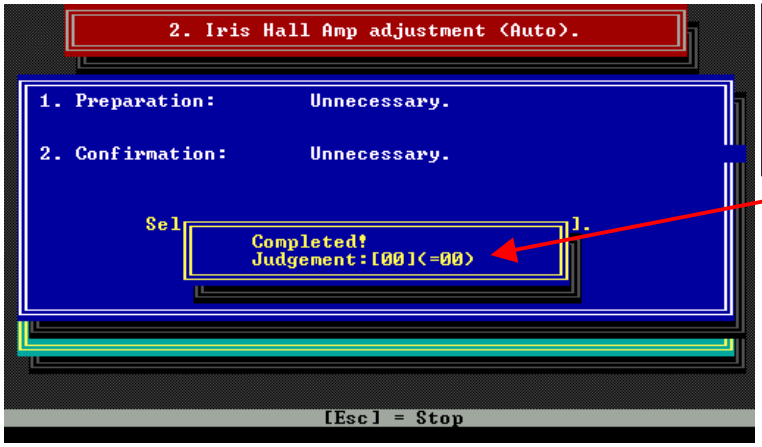
1. Open the **"Camera adjustment menu"**. Please
2. Select **"2. Iris Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

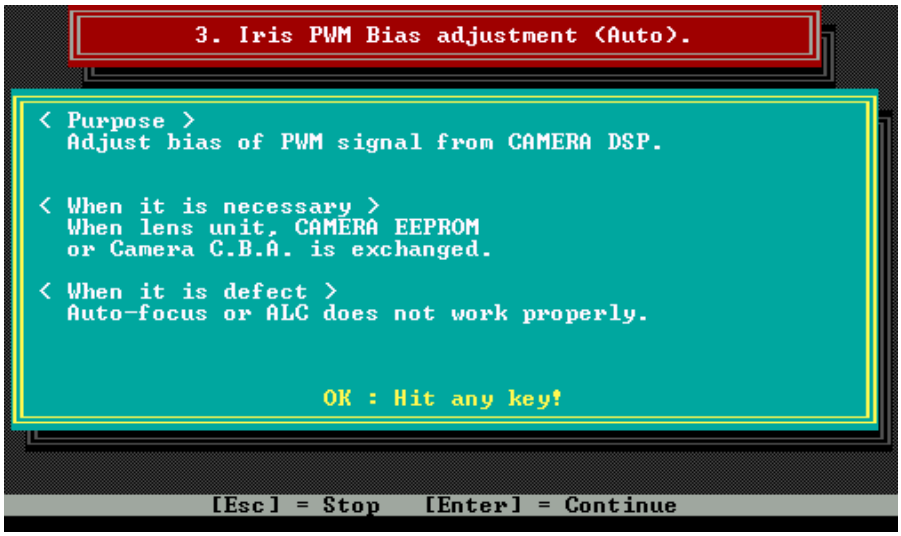


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

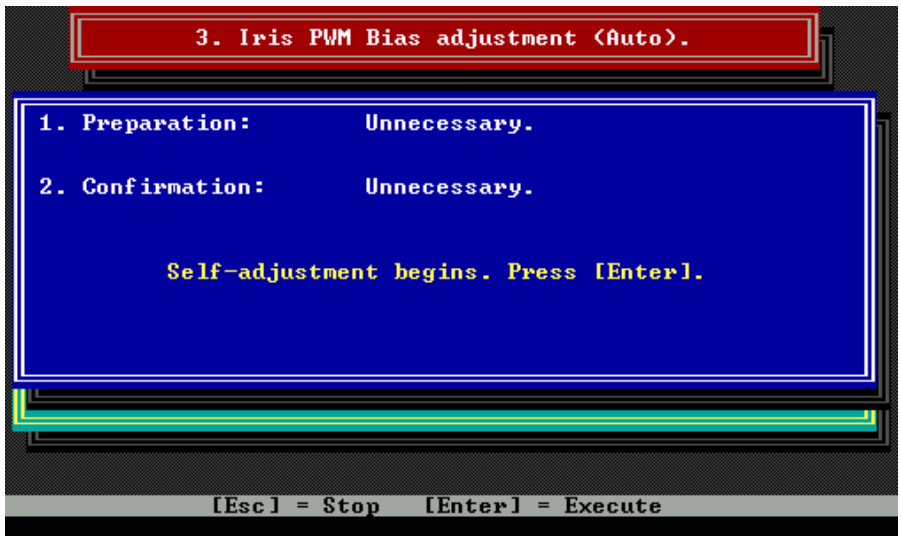
6-2. Iris PWM Bias Adjustment (AUTO)

This adjustment is automatically executed.

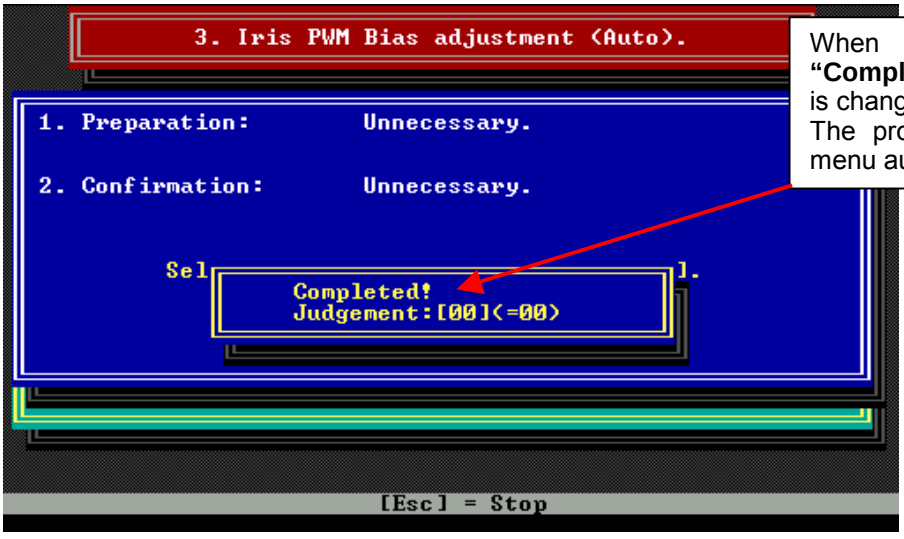
1. Open the **"Camera adjustment menu"**.
2. Select **"3. Iris PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.

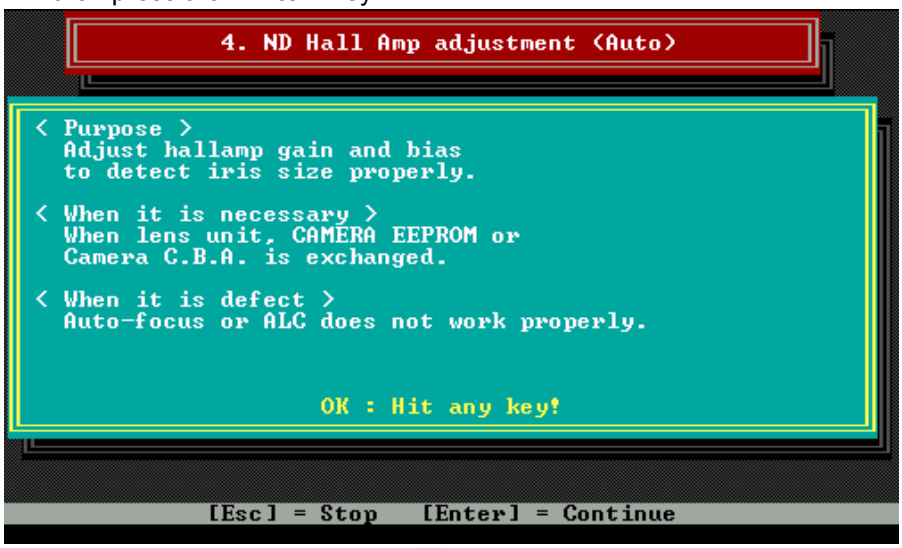


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-3. ND Hall Amp Adjustment (AUTO)

This adjustment is automatically executed.

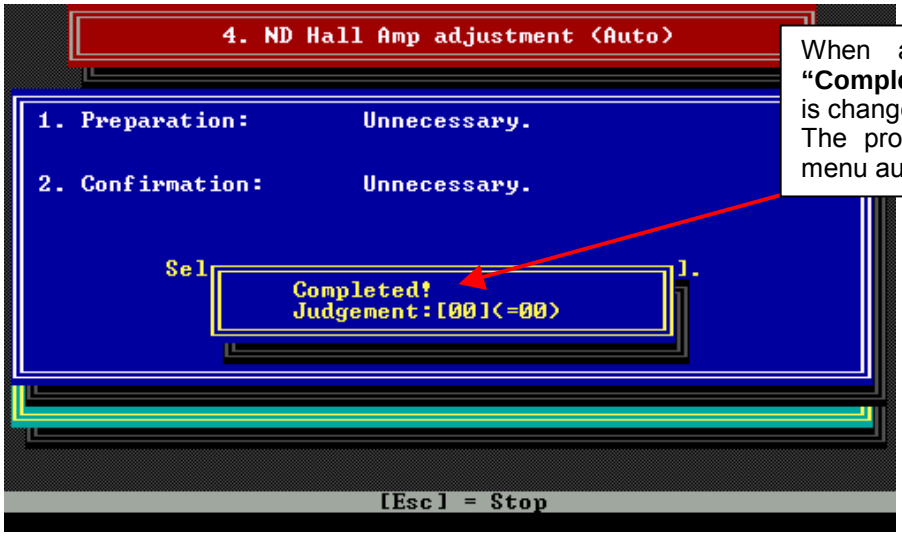
1. Open the **"Camera adjustment menu"**.
2. Select **"4. ND Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.

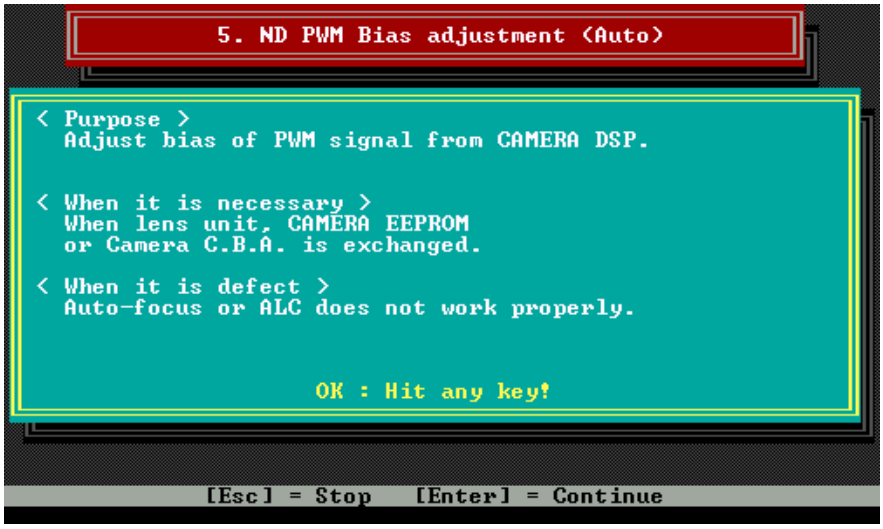


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

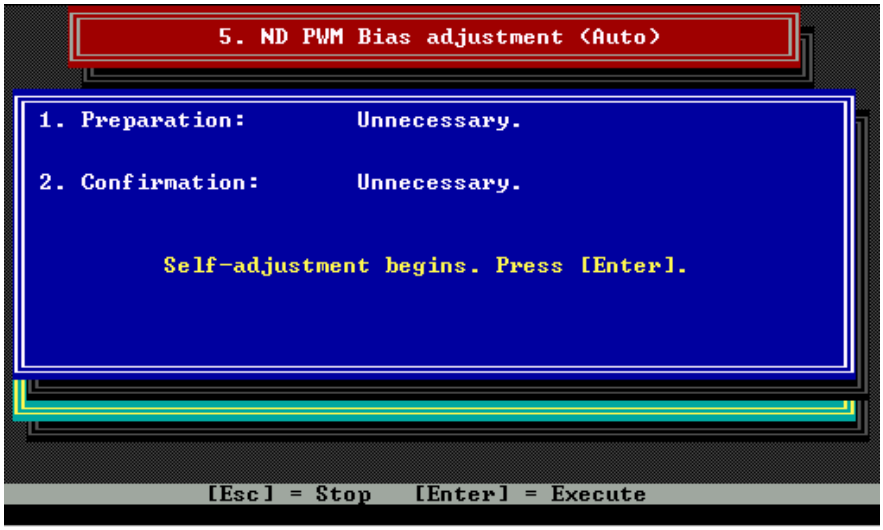
6-4. ND PWM Bias Adjustment (AUTO)

This adjustment is automatically executed.

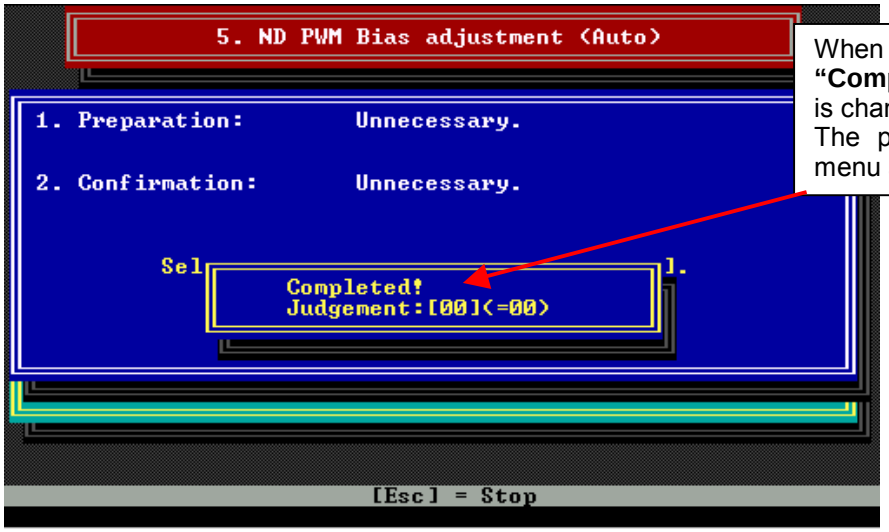
1. Open the **"Camera adjustment menu"**.
2. Select **"5. ND PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.



When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

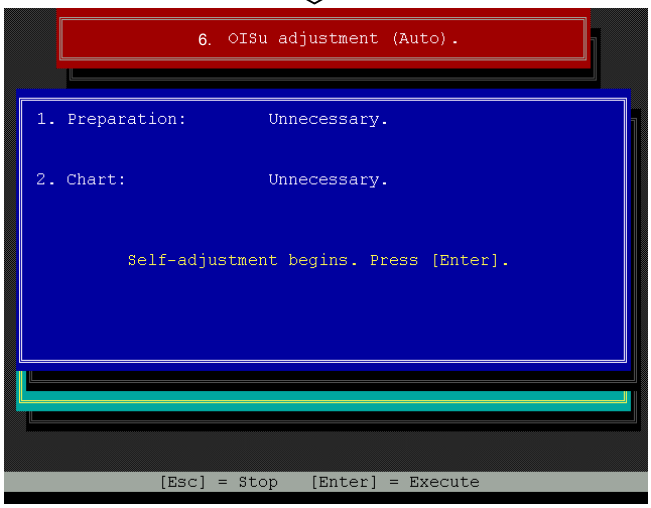
6-5. OISu Adjustment (AUTO)

This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“6. OISu adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.

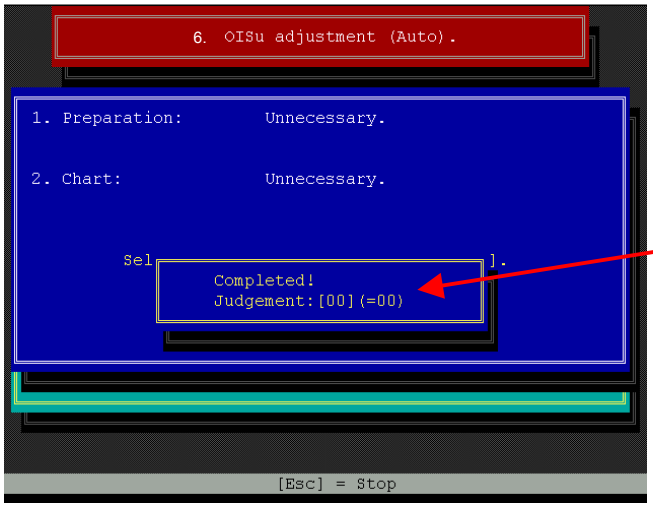


PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

NOTE: You will hear a tapping sound, this is OK.

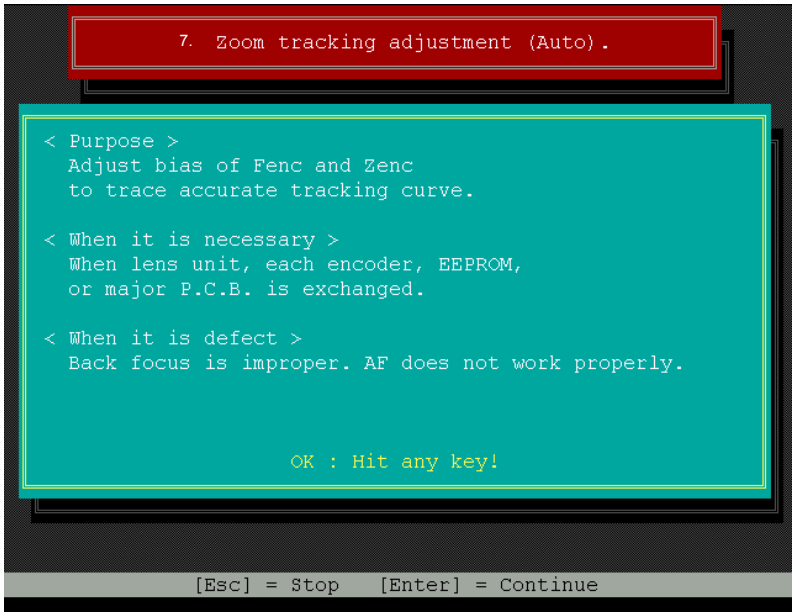


When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

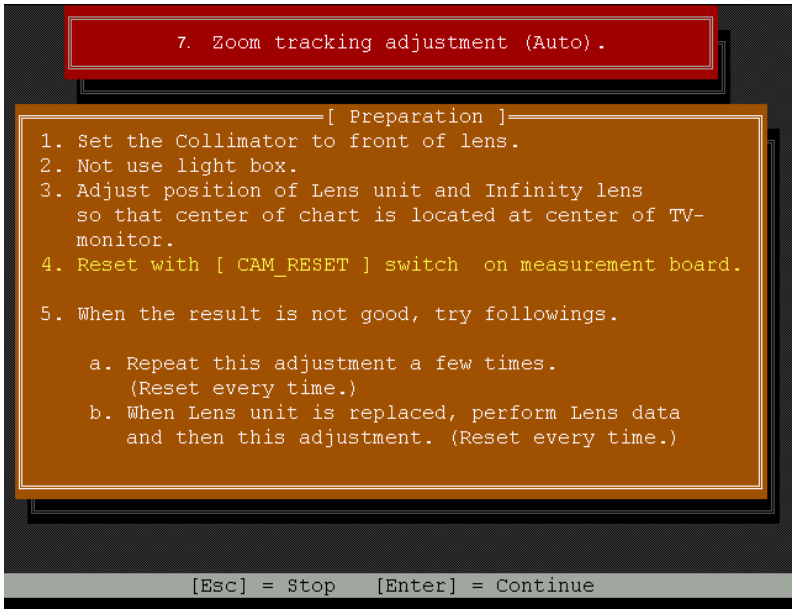
6-6. Zoom Tracking Adjustment (AUTO)

This adjustment is automatically executed.

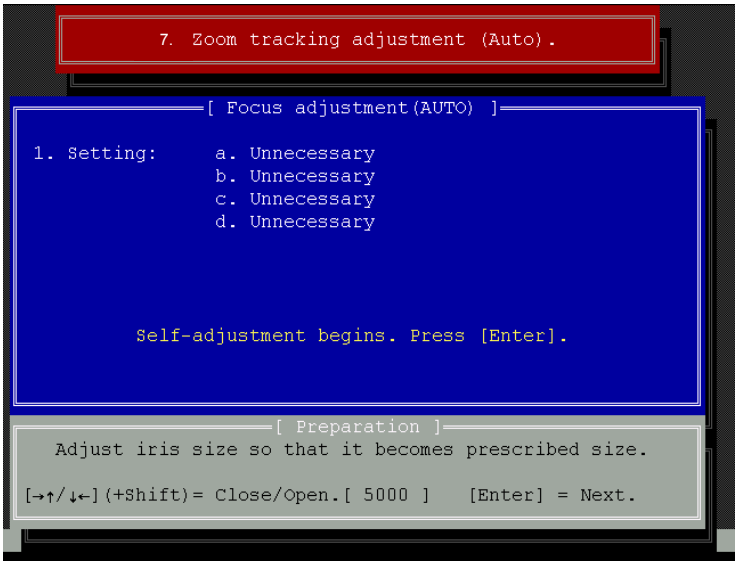
1. Set the 43mm attachment ring (VFK1164TAR43) to front of the Lens.
2. Set the Collimator (VFK1164TCM01) to 43mm attachment ring (VFK1164TAR43) to
3. Open the **"Camera adjustment menu"**.
4. Select **"7. Zoom Tracking adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
5. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



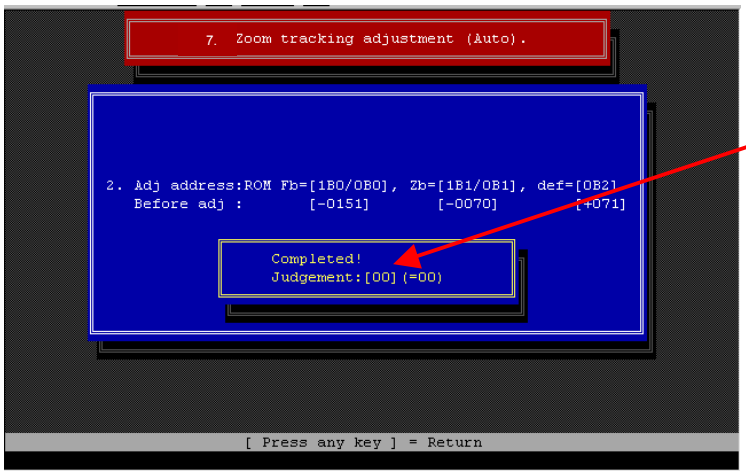
PRESS ENTER KEY.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



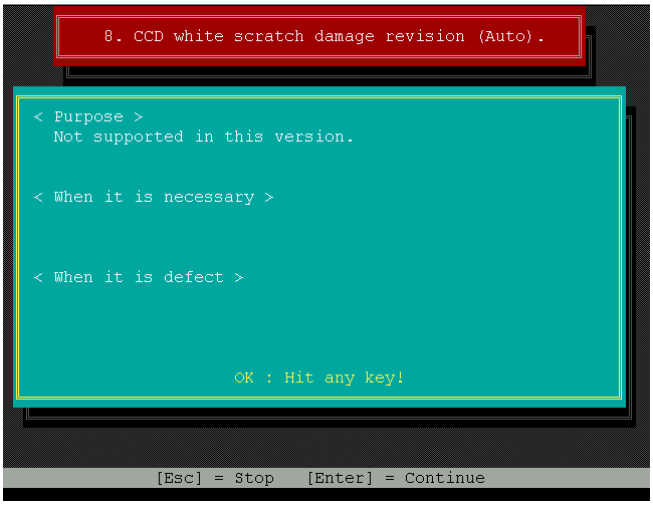
When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6. Connect the VIDEO OUT to Monitor TV.
7. Set the AUTO/MANUAL SELECT switch to MANUAL position.
8. Adjust Focus Ring to set focus of the focus chart in the MF mode, at the maximum of TELE side.
9. Press the Zoom button to change zoom position to maximum WIDE from maximum TELE side and to maximum TELE side from maximum WIDE side, then confirm that the focus chart appears clear.

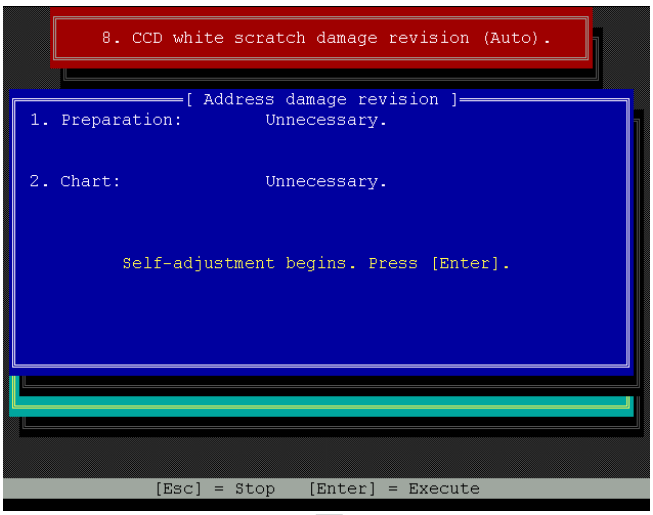
6-7. CCD white scratch damage revision Adjustment (AUTO)

This adjustment is automatically executed.

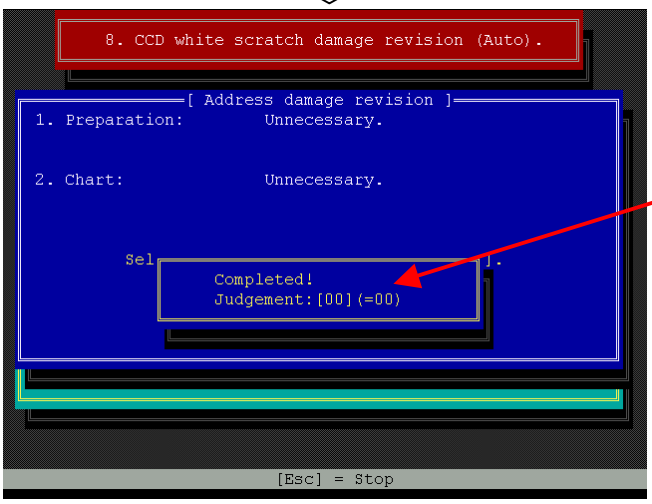
1. Open the **“Camera adjustment menu”**.
2. Select **“8.CCD white scratch damage revision adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



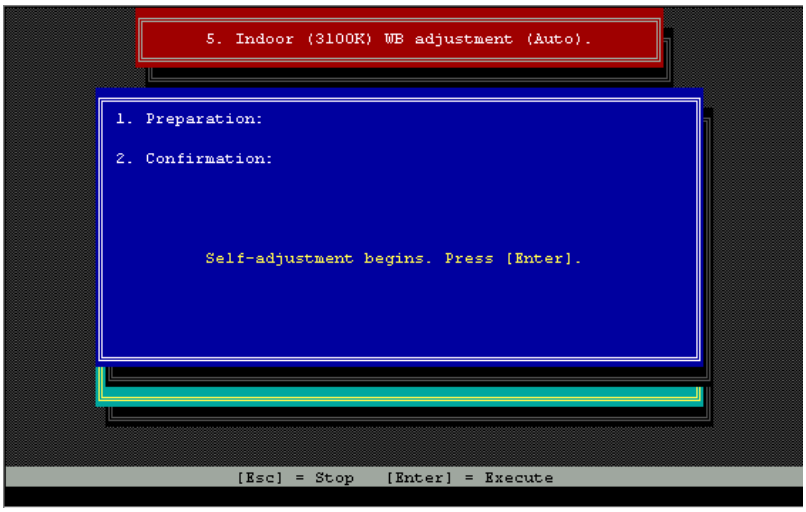
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-8. White Balance Adjustment (AUTO)

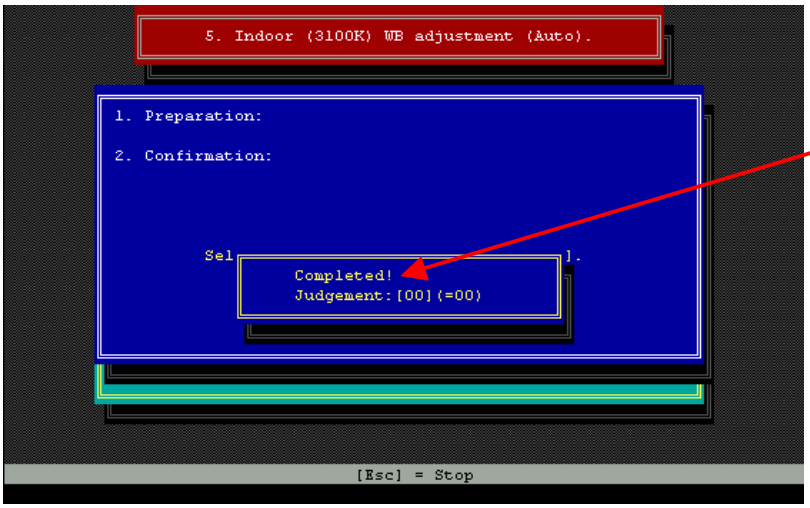
This adjustment is automatically executed.
Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.

6-8-1. Indoor (3100K) White Balance Adjustment (AUTO)

1. Set the AUTO/MANUAL SELECT SW to MANUAL position.
2. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
3. Execute the ABB by press WHITE BAL button.
4. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
5. Open the **"Camera adjustment menu"**.
6. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
7. Select **"5. Indoor (3100K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



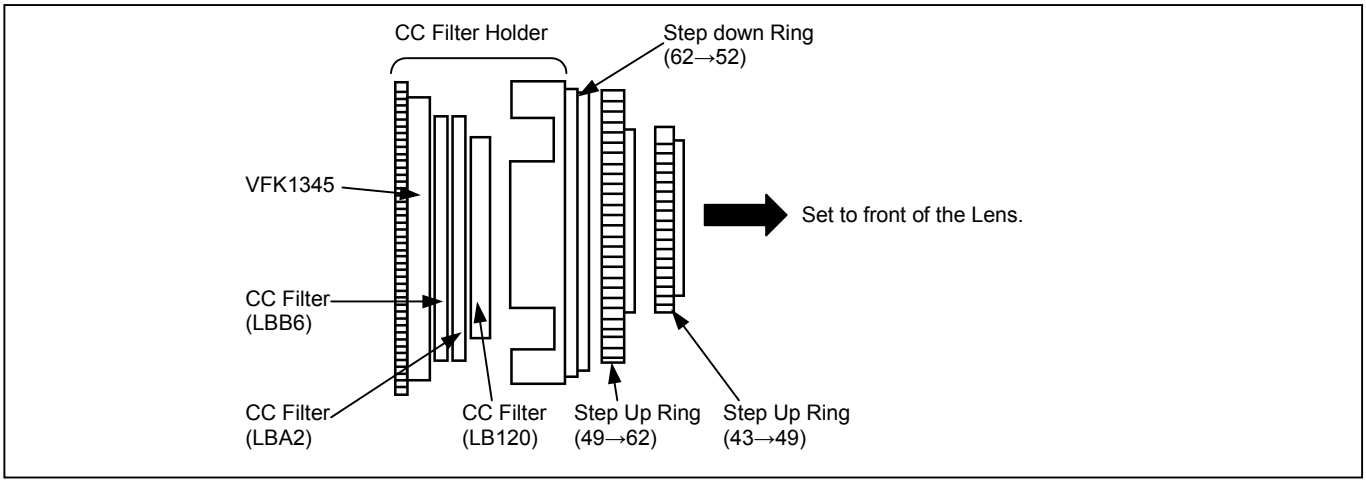
PRESS ENTER KEY, then adjustment is started.



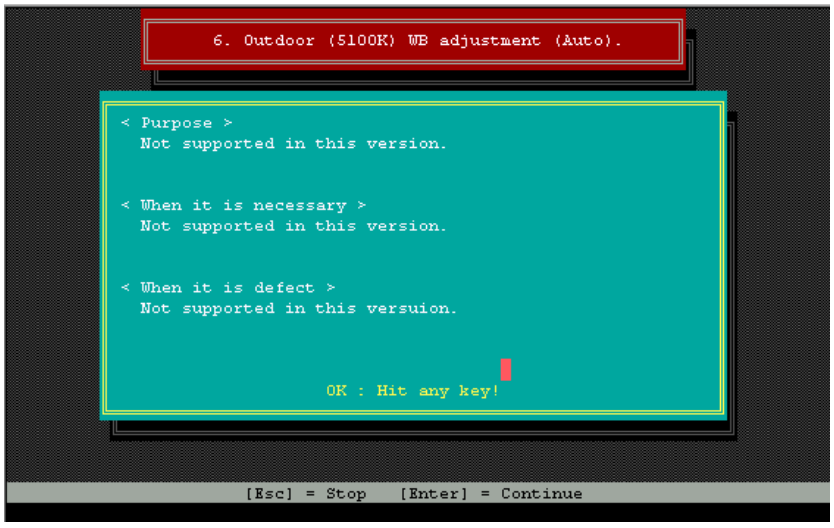
When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6-8-2. Outdoor (5100K) White Balance Adjustment (Auto)

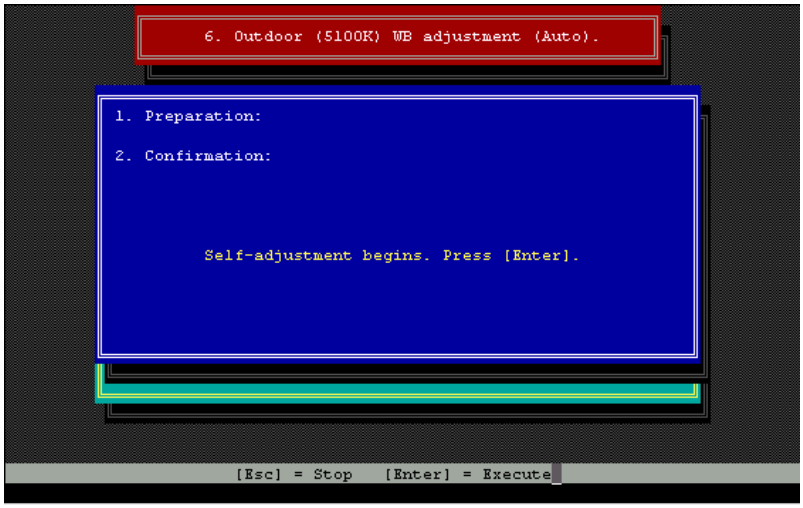
1. Set the Color Conversion filters (LB120 : VFK1347), (LBA2 : VFK1884) and (LBB6 : VFK1888) to CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



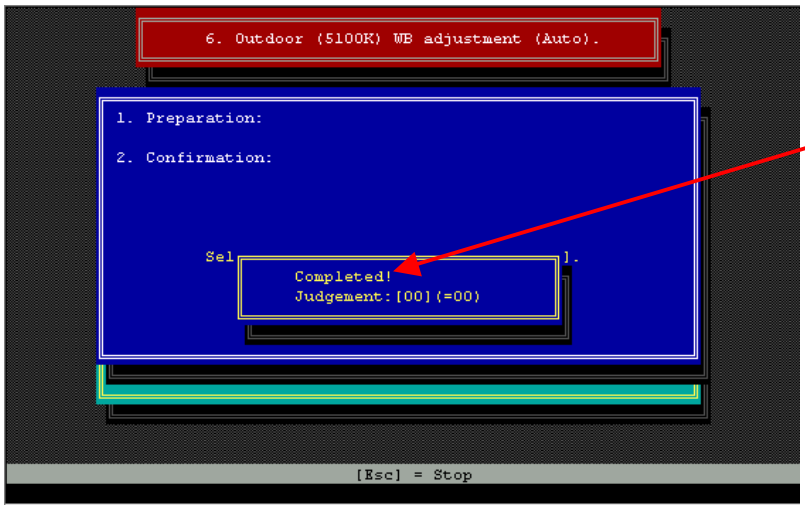
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"6. Outdoor (5100K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-3. Cool white (4500K) White Balance Adjustment (Auto)

< In case of NTSC model >

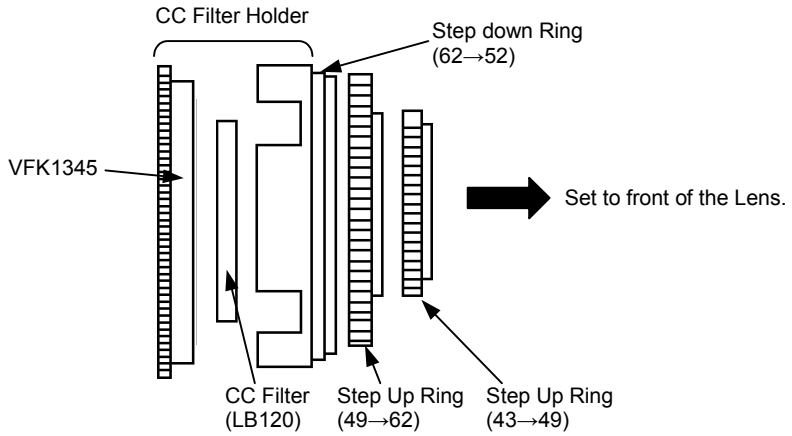
1. Set the Color Conversion filters (LB120 : VFK1347) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB80 : VFK1342) and (CC C20 : VFK1887) to CC Filter Holder (VFK1345).

< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

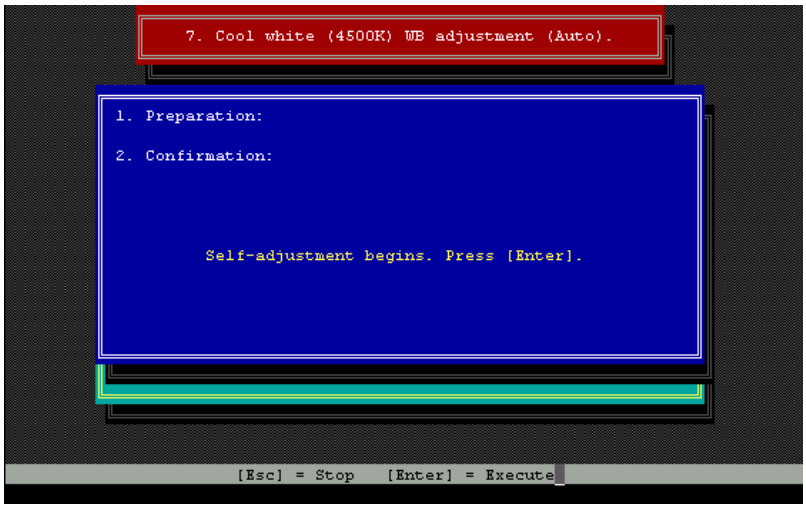


NOTE: Above figure described in case of NTSC.

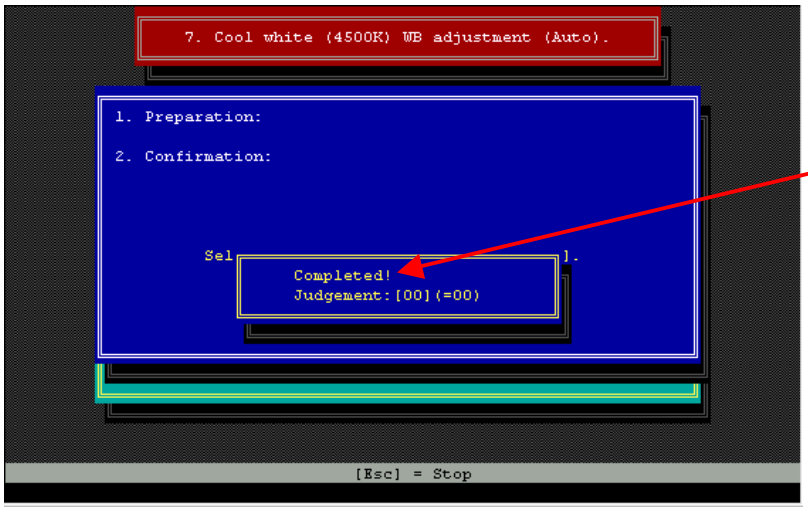
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"7. Cool white (4500K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.



When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6-8-4. Warm white (3600K) White Balance Adjustment (Auto)

< In case of NTSC model >

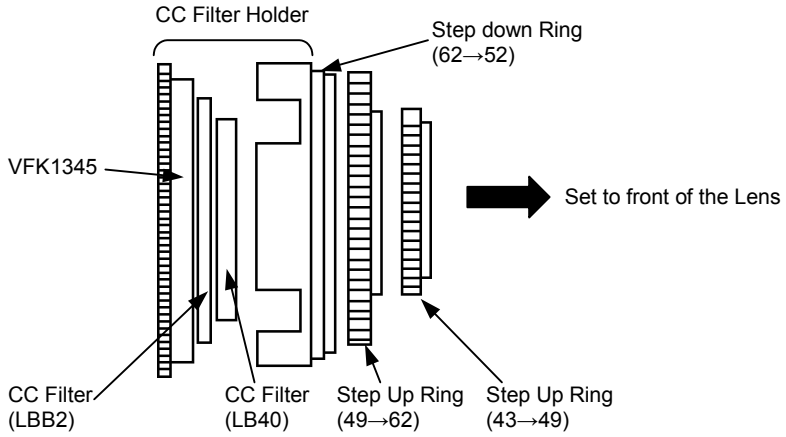
1. Set the Color Conversion filters (LB40 : VFK1341) and (LBB2 : VFK1885) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (CC C10 : VFK1886) to CC Filter Holder (VFK1345).

< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

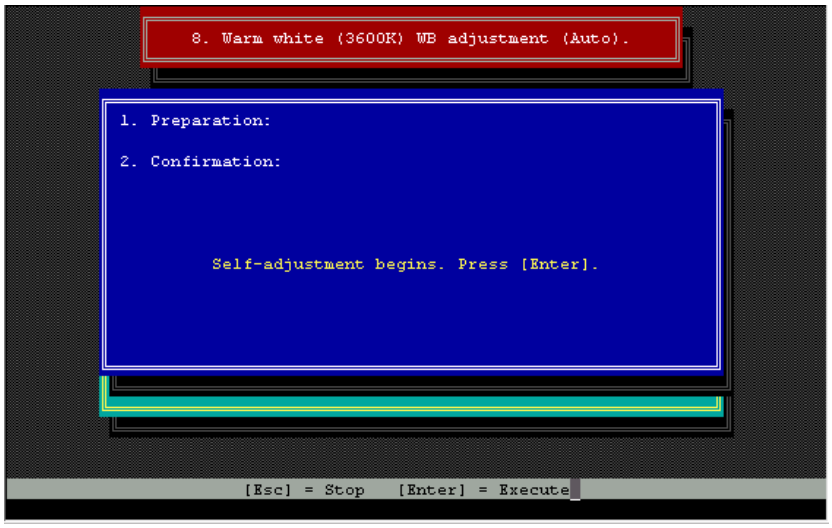


NOTE: Above figure described in case of NTSC.

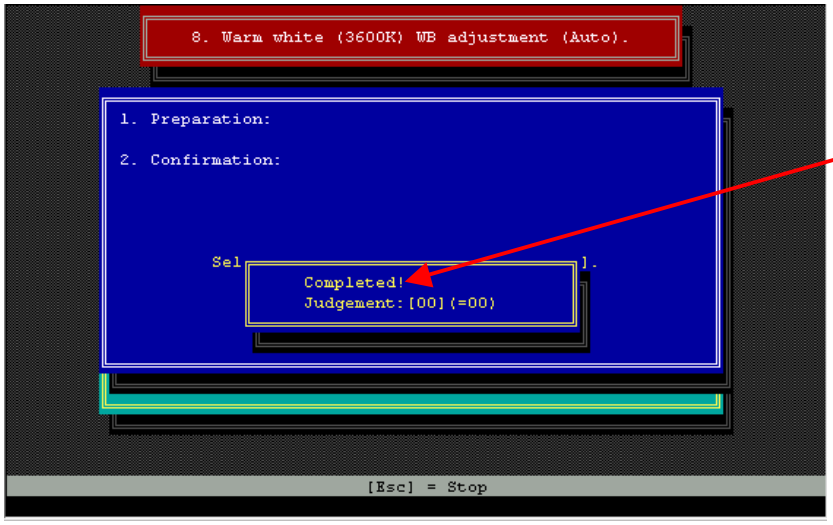
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"8. Wram white (3600K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



PRESS ENTER KEY.



PRESS ENTER KEY, then adjustment is started.

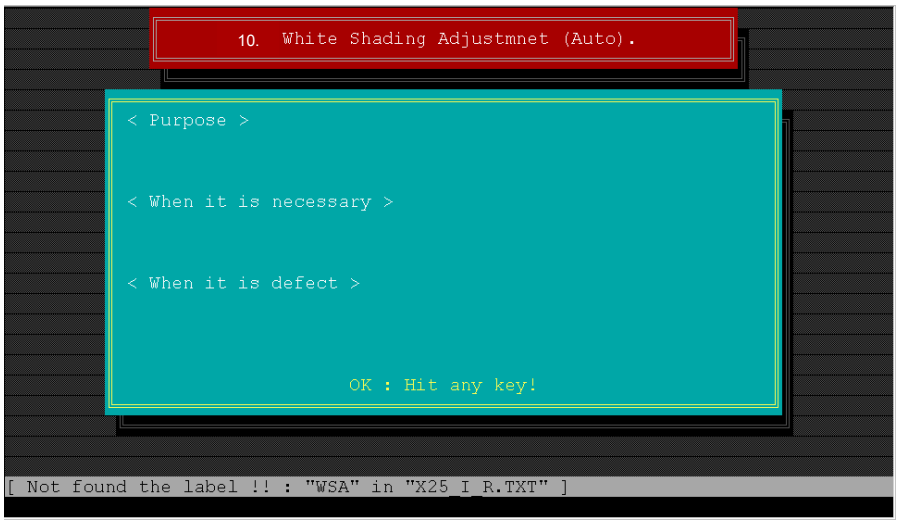


When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

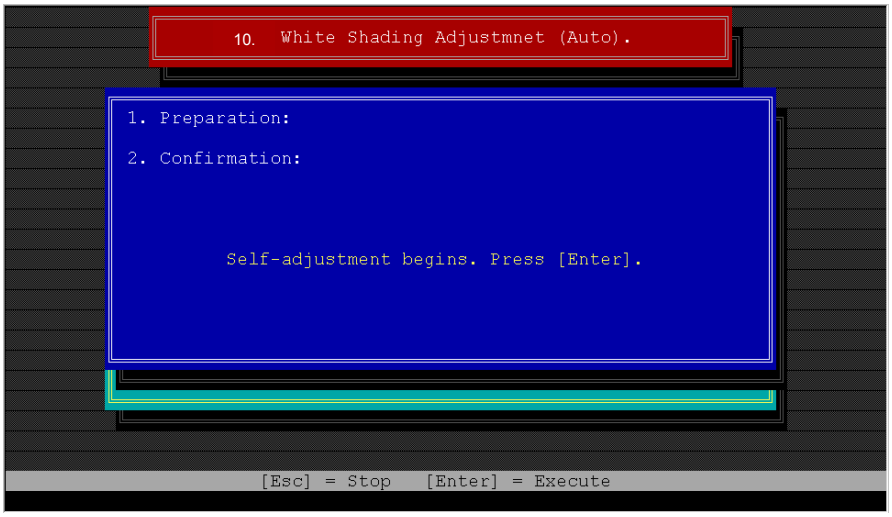
6-9. White Shading Adjustment

This adjustment is automatically executed.

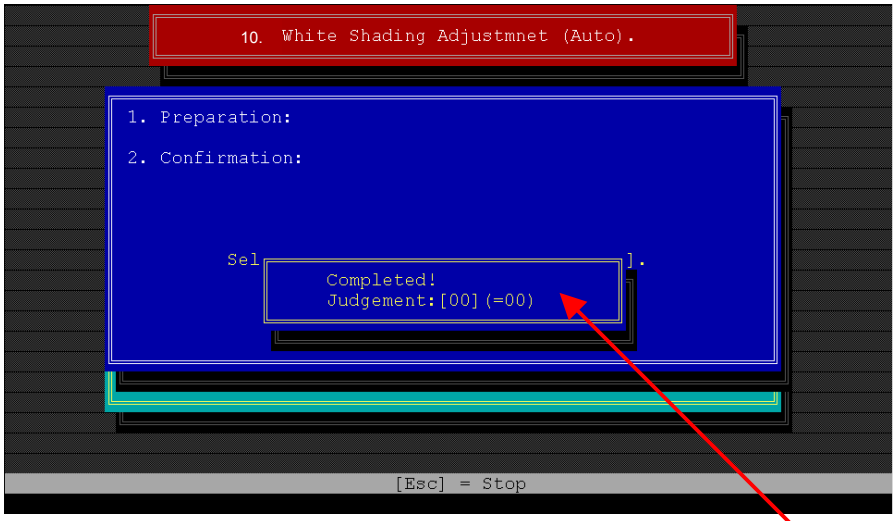
1. Aim the camera recorder at white paper (use clear white paper) under the Halogen lamp condition.
2. Shoot the white paper to fully fill entire screen.
3. Set the AUTO/MANUAL SELECT switch to MANUAL position.
4. Press WHITE BAL button until mark ”◹◿“ displayed as flash condition to execute white balance adjustment.
5. Keep pressing WHITE BAL button “◹◿“ display switching over to the light from the flash.
6. Press ZEBRA button to display the marker on the screen (When press the ZEBRA button, a zebra pattern is displayed and when pushing the ZEBRA button once again, it displays a marker at the center of the screen).
7. Press MULTI-DIAL to display the F-number.
8. Adjust the MULTI-DIAL to the luminance level to become 70 to 80% (luminance level can be confirm by numerical value, which displayed lower left corner of screen).
9. Open the **“Camera adjustment menu”** in EVR software.
10. Select **“10. White Shading Adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
11. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



PRESS ENTER KEY.



PRESS ENTER KEY,
then adjustment is started.



When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

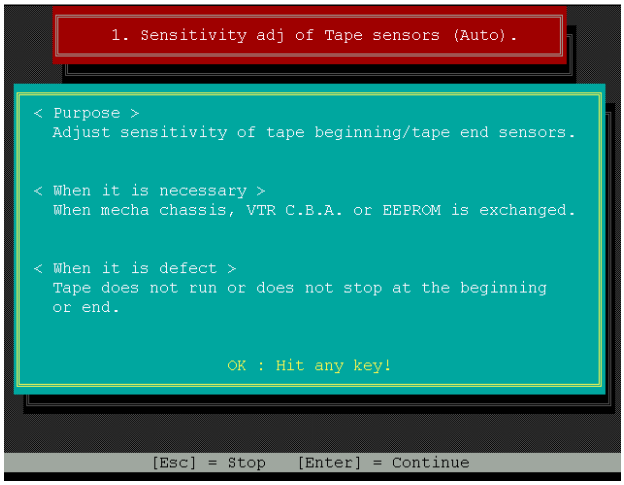
7. VTR ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

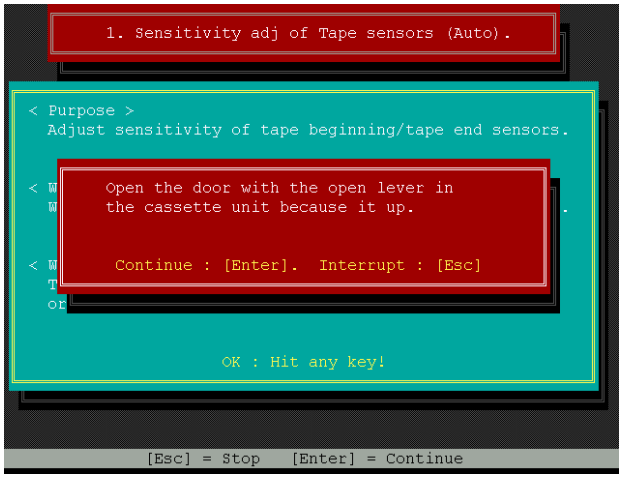
7-1. Sensitivity adj of Tape sensors Adjustment (AUTO)

This adjustment is automatically executed.

1. Open the REC Inhibit Tab (SAVE side) of Tape End/Beg. Sensor Cassette (VFK1217).
2. Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"1. Sensitivity adj of Tape sensors (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.

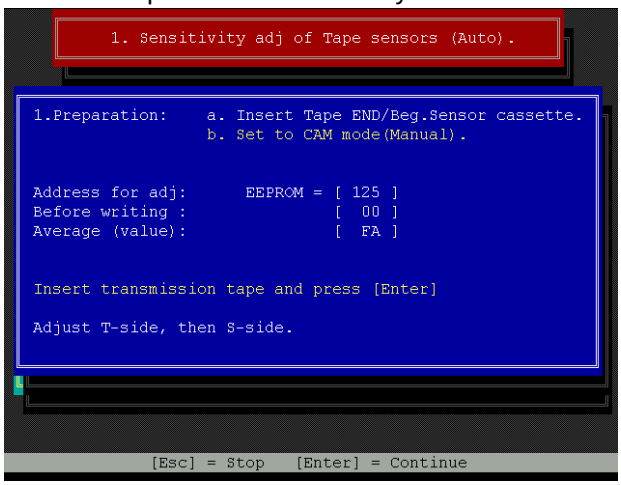


PRESS ENTER KEY.

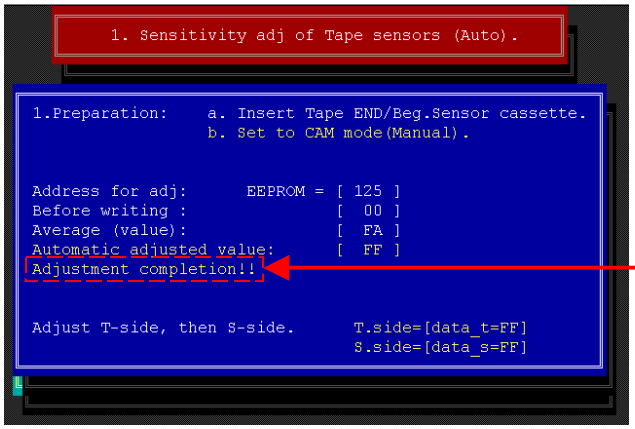


Unnecessary open the door, PRESS ENTER KEY.

5. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



In case of the **"Tape END / Beg. Sensor cassette (VFK1217)"** is already inserted, PRESS ENTER KEY.

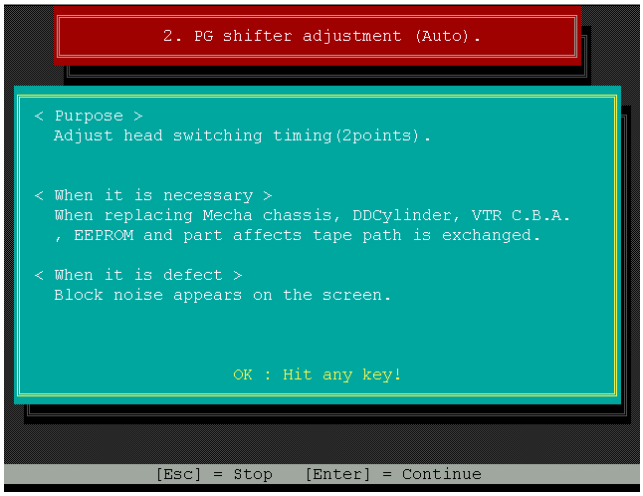


Please confirm this message appears on screen, then adjustment is finished.

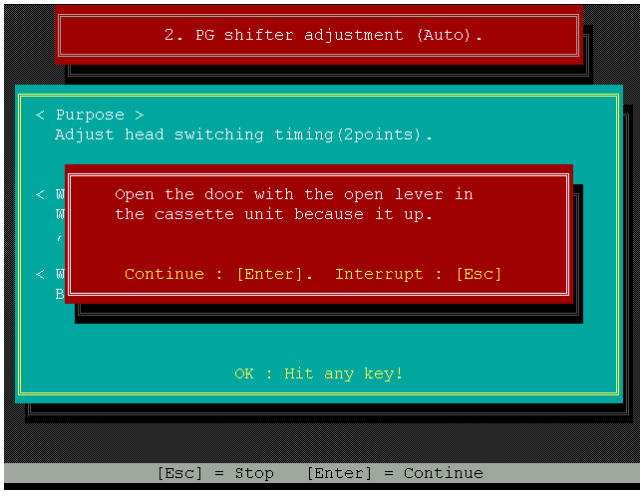
7-2. PG shifter Adjustment (AUTO)

This adjustment is automatically executed.

1. Connect the oscilloscope to **"HID"** and **"SPA"** on the VFK1308P.
2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"2. PG shifter adjustment (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.
5. Set to VCR mode in camera recorder follow the message **"Manually set to VCR mode."**, and then press the **"Enter"** key.



PRESS ENTER KEY.



It is unnecessary to open the door, PRESS ENTER KEY.

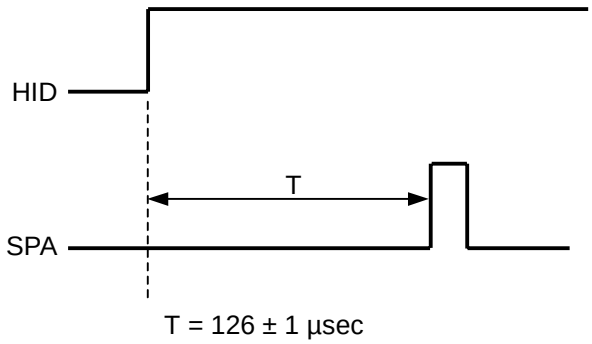


In case the DV color bar alignment tape is already inserted, PRESS ENTER KEY, then adjustment is started.

NOTE:

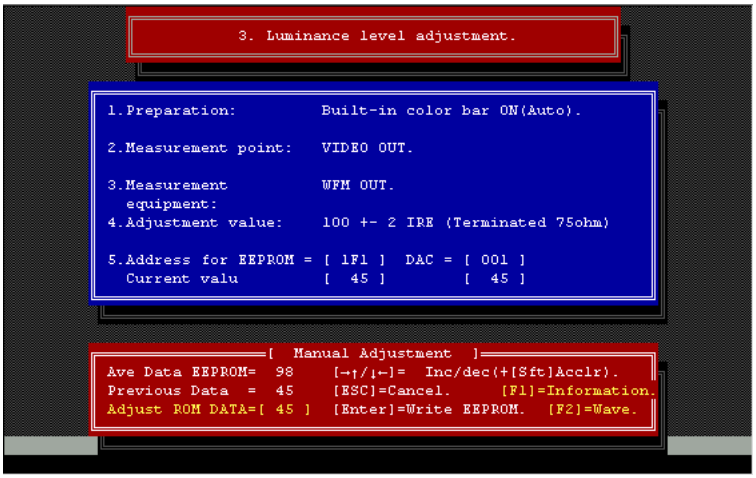
When the screen change to the following screen, camera recorder goes to STBY ON from STBY OFF mode. Press ENTER key after the camera recorder change to STBY ON mode completely.

After finishing adjustment, please confirm that the portion **"T"** is within the specification as shown in figure with an oscilloscope.



7-3. Luminance level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **"Video adjustment menu"**.
3. Select **"3. Luminance level adjustment"** in the Video adjustment menu, and then press the **"Enter"** key.
4. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



NOTE:
This figure describes the NTSC model.

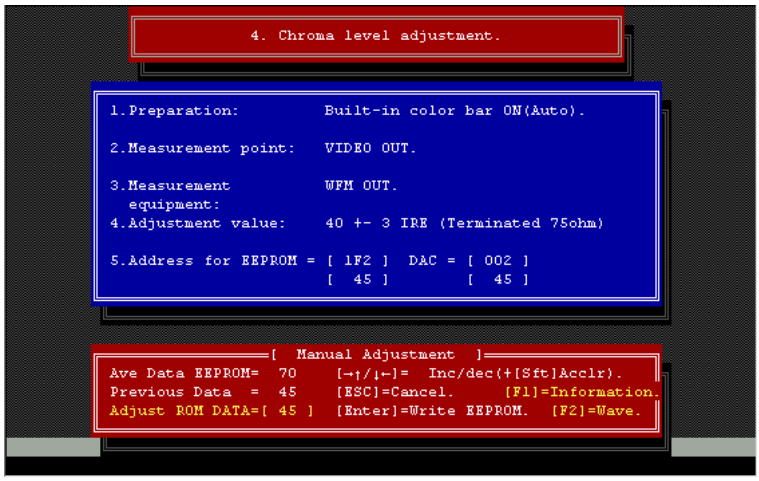
5. Adjust the arrow keys on PC so that the Y level becomes (100±2 IRE: NTSC model / 700±10 mVp-p: PAL model).

Note: 1) Y level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data write to EEPROM.

7-4. Chroma level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **"Video adjustment menu"**.
3. Select **"4. Chroma level adjustment"** in the Video adjustment menu, and then press the **"Enter"** key.
4. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



NOTE:
This figure describes the NTSC model.

5. Adjust the arrow keys on PC so that the C level becomes (40±3: NTSC model / 300±20 mVp-p: PAL model).

Note: 1) C level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data to EEPROM.

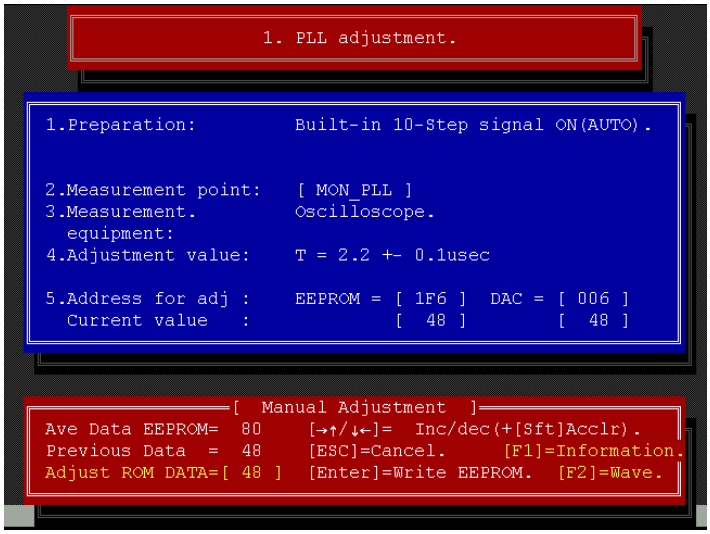
8. LCD ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

8-1. PLL Adjustment

1. Connect the oscilloscope to **"MON_PLL"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"1. PLL adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.

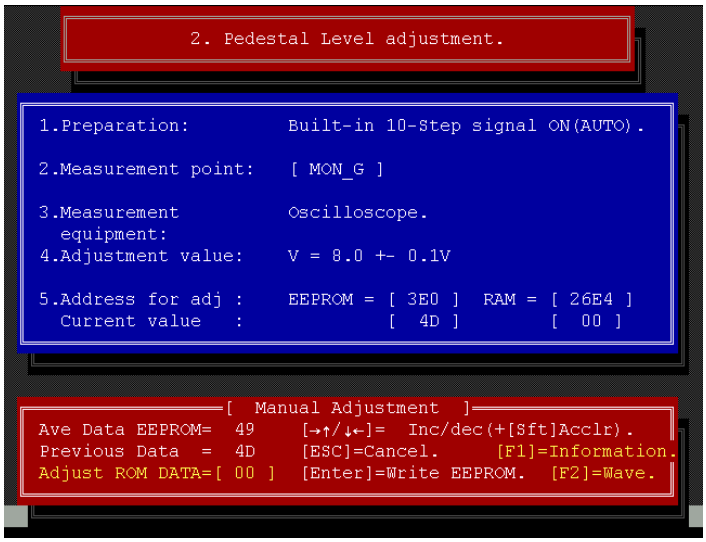


4. Adjust the arrow keys on PC so that the width (T) becomes 2.2±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-2. Pedestal Level Adjustment

1. Connect the oscilloscope to **"MON_G"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"2. Pedestal Level adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.

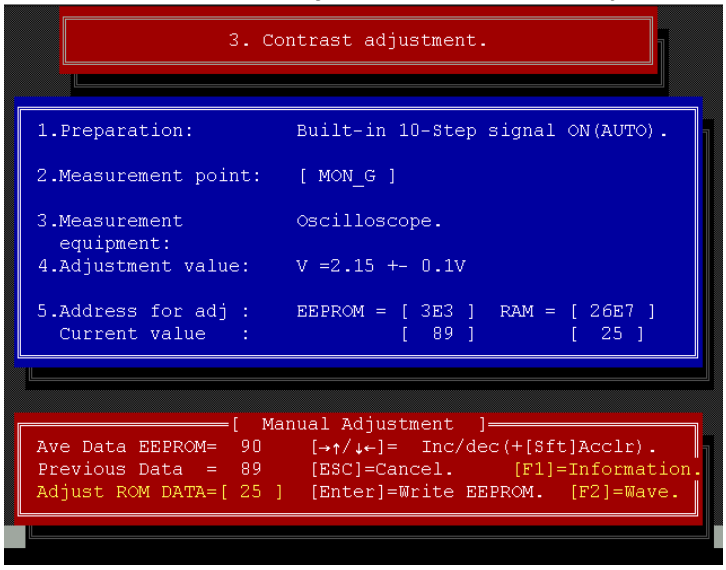


4. Adjust the arrow keys on PC so that the differential amplitude both 0 step-level (portion **"a"** in figure) to becomes 8.0±0.1V as shown in figure on screen.

Note:
1) Level (a) can be by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-3. Contrast Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“3. Contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



4. Adjust the arrow keys on PC so that the differential amplitude between 0 step-level and 7 step-level (portion **“V”** in figure) becomes 2.15±0.1V as shown in figure on screen.

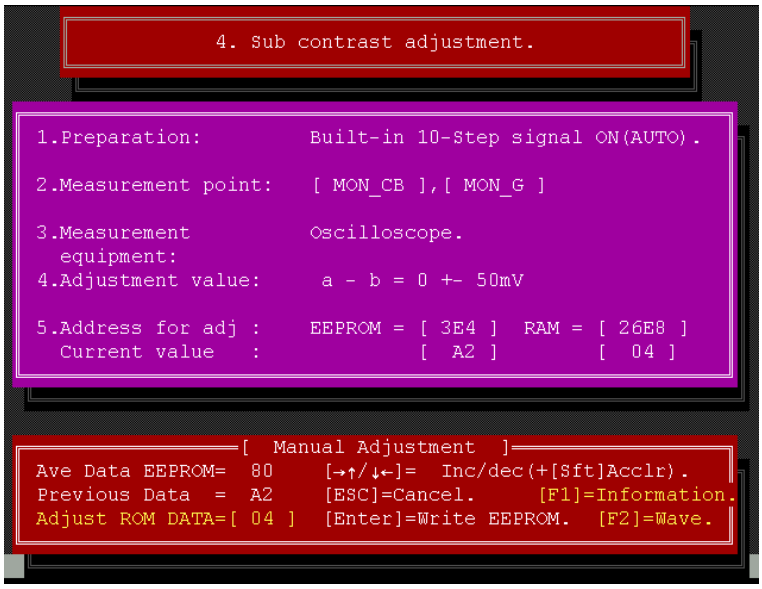
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-4. Sub contrast Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“4. Sub contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.

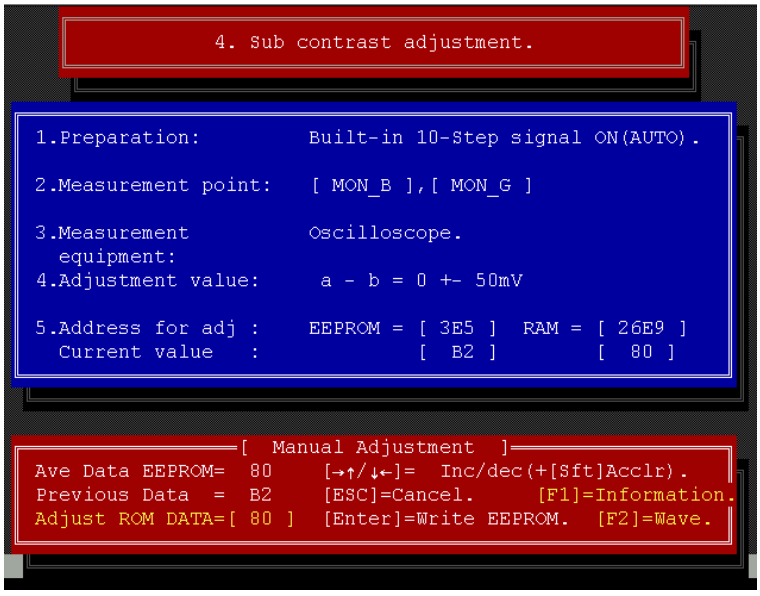


4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) to become 0±50mV as shown in figure on screen.

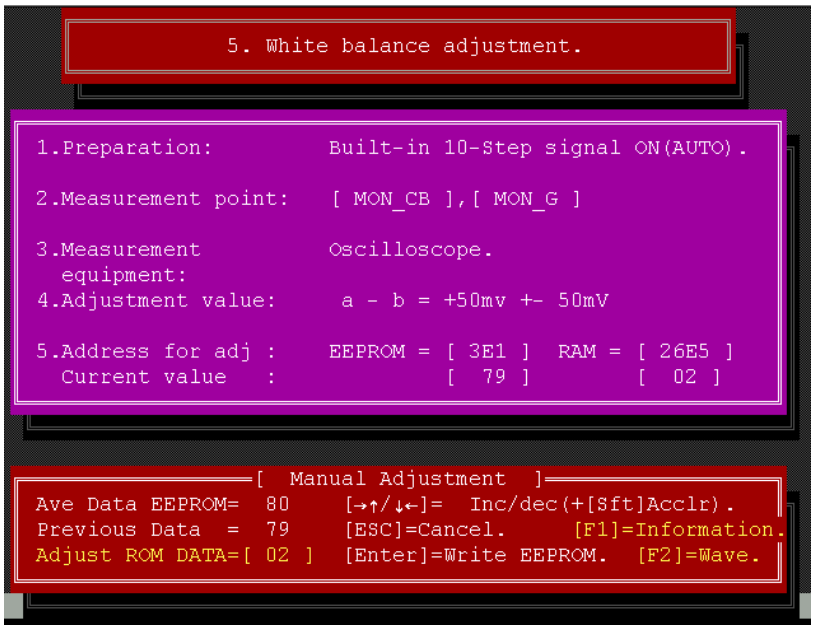
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-5. White balance Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“5. White balance adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.

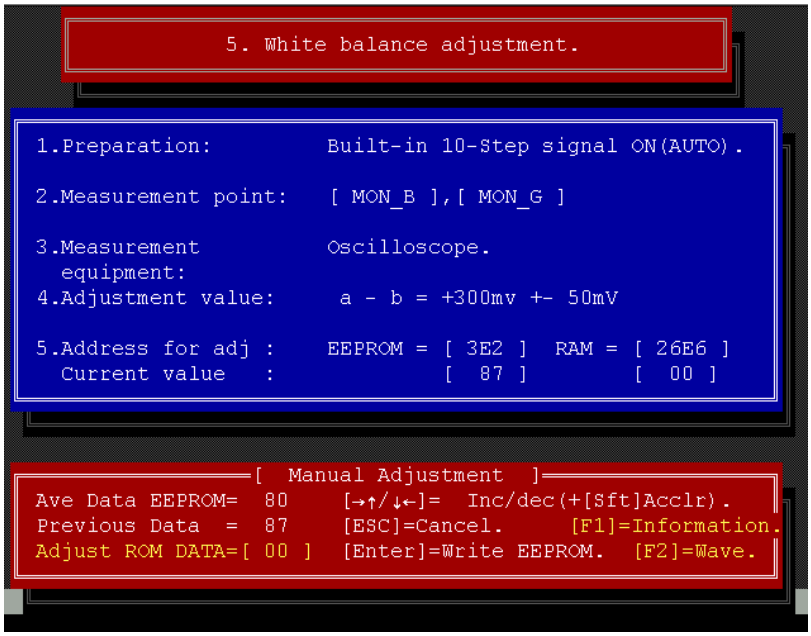


4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes +50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) becomes +300mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.
8. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

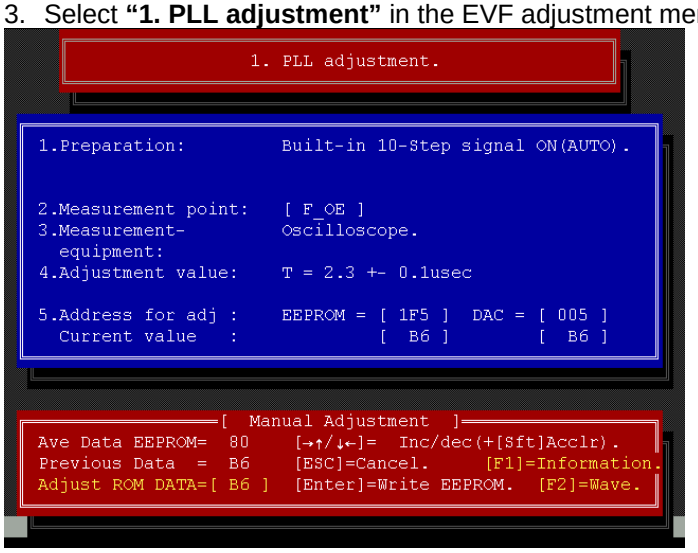
9. EVF ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

9-1. EVF PLL Adjustment

1. Connect the oscilloscope to **"F_OE"** on the VFK1308P.
2. Open the **"EVF adjustment menu"**.
3. Select **"1. PLL adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



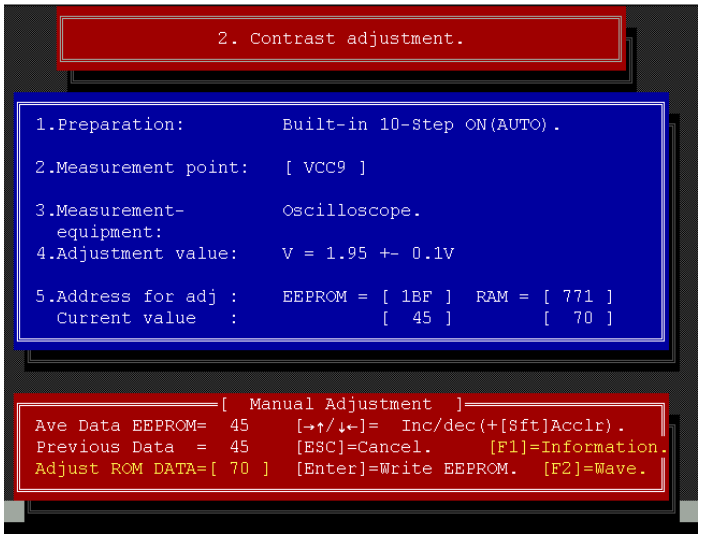
4. Adjust the arrow keys on PC so that the width (T) becomes 2.3±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-2. EVF Contrast Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"2. Contrast adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



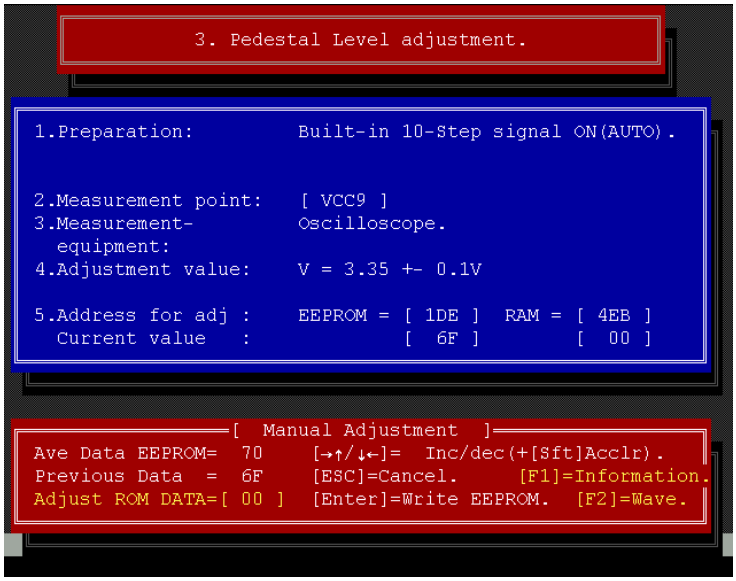
5. Adjust the arrow keys on PC so that the differential amplitude between 1 step-level and 10 step-level (portion **"V"** in figure) becomes 1.95±0.1V as shown in figure on screen.

Note: 1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-3. EVF Pedestal Level Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"3. Pedestal Level adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



5. Adjust the arrow keys on PC so that the differential amplitude both 10 step-level (portion **"V"** in figure) becomes 3.35±0.1V as shown in figure on screen.

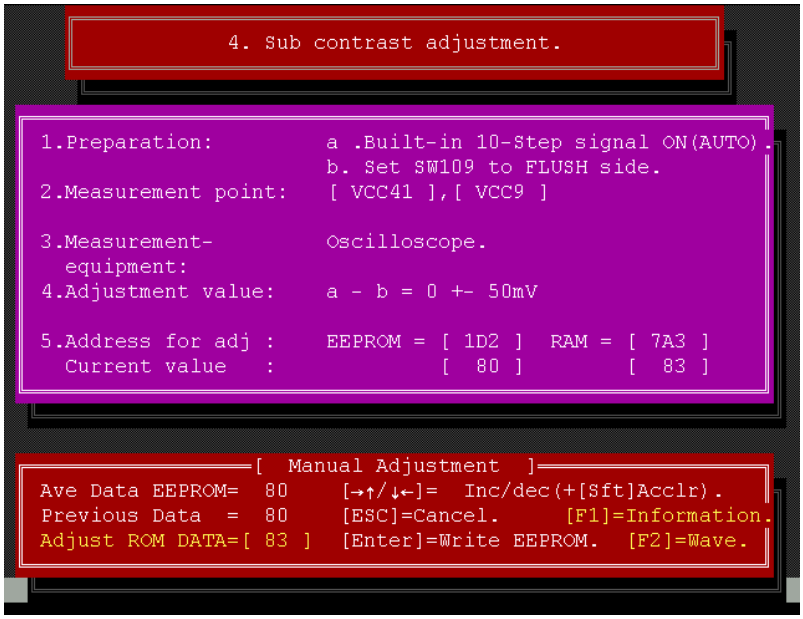
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-4. EVF Sub contrast Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC41"** and **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"4. Sub contrast adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.

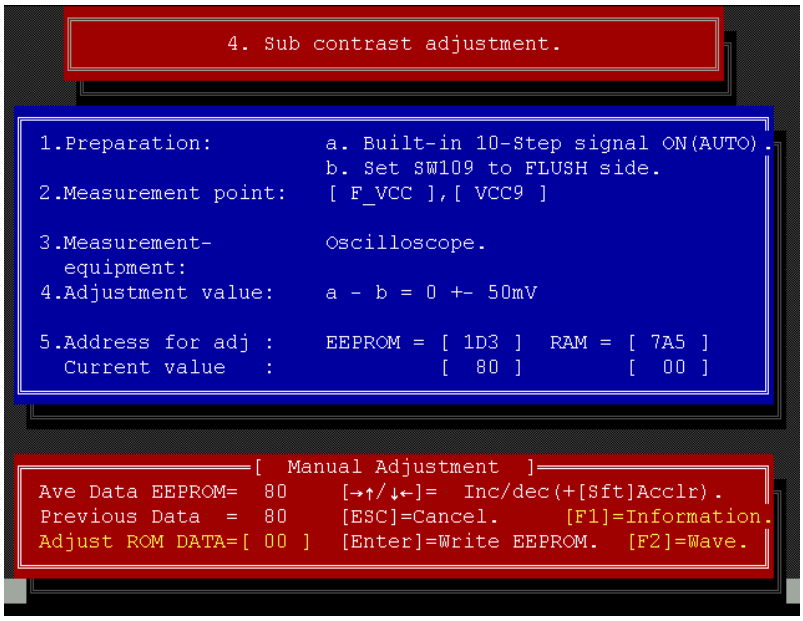


5. Adjust the arrow keys on PC so that the level difference between **"a"** (VCC41) and **"b"** (VCC9) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM, then change the display indicated as below.



7. Connect the oscilloscope to **"F_VCC"** and **"VCC9"** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **"a"** (F_VCC) and **"b"** (VCC9) becomes 0±50mV as shown in figure on screen.

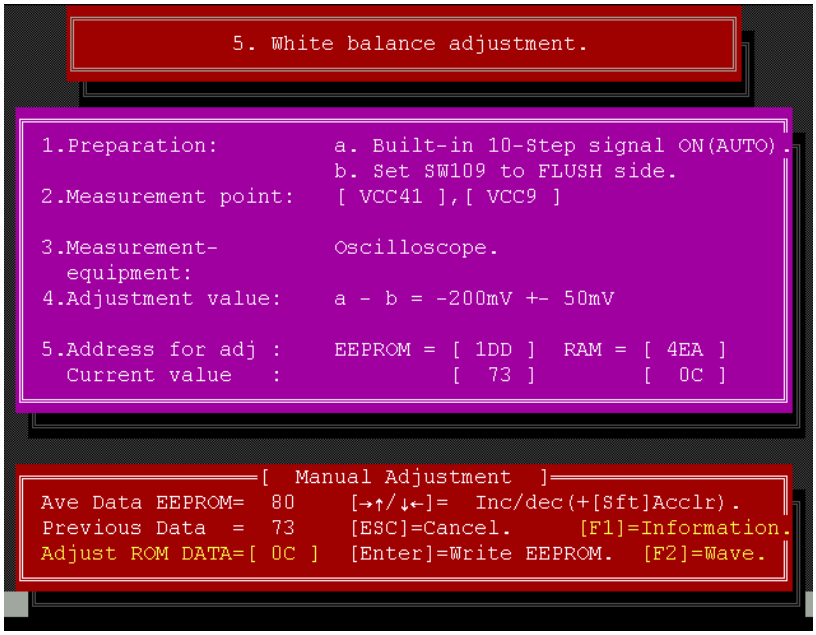
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

9-5. EVF White balance Adjustment

1. Set SW109 to **"FLUSH"** side on the VFK1308P.
2. Connect the oscilloscope to **"VCC41"** and **"VCC9"** on the VFK1308P.
3. Open the **"EVF adjustment menu"**.
4. Select **"5. White balance adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.

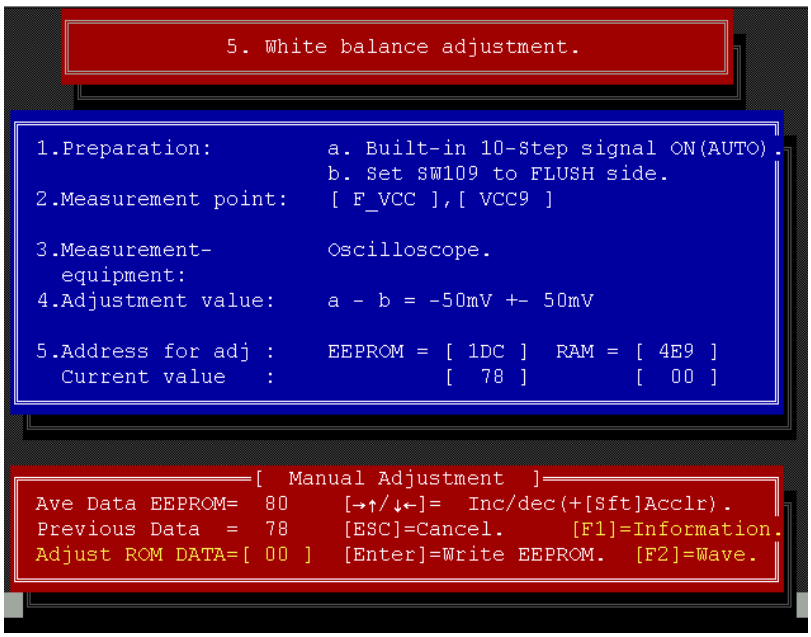


5. Adjust the arrow keys on PC so that the level difference between **"a"** (VCC41) and **"b"** (VCC9) becomes -200mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



7. Connect the oscilloscope to **"F_VCC"** and **"VCC9"** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **"a"** (F_VCC) and **"b"** (VCC9) to become –50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

SECTION 5

BLOCK DIAGRAMS

CONTENTS

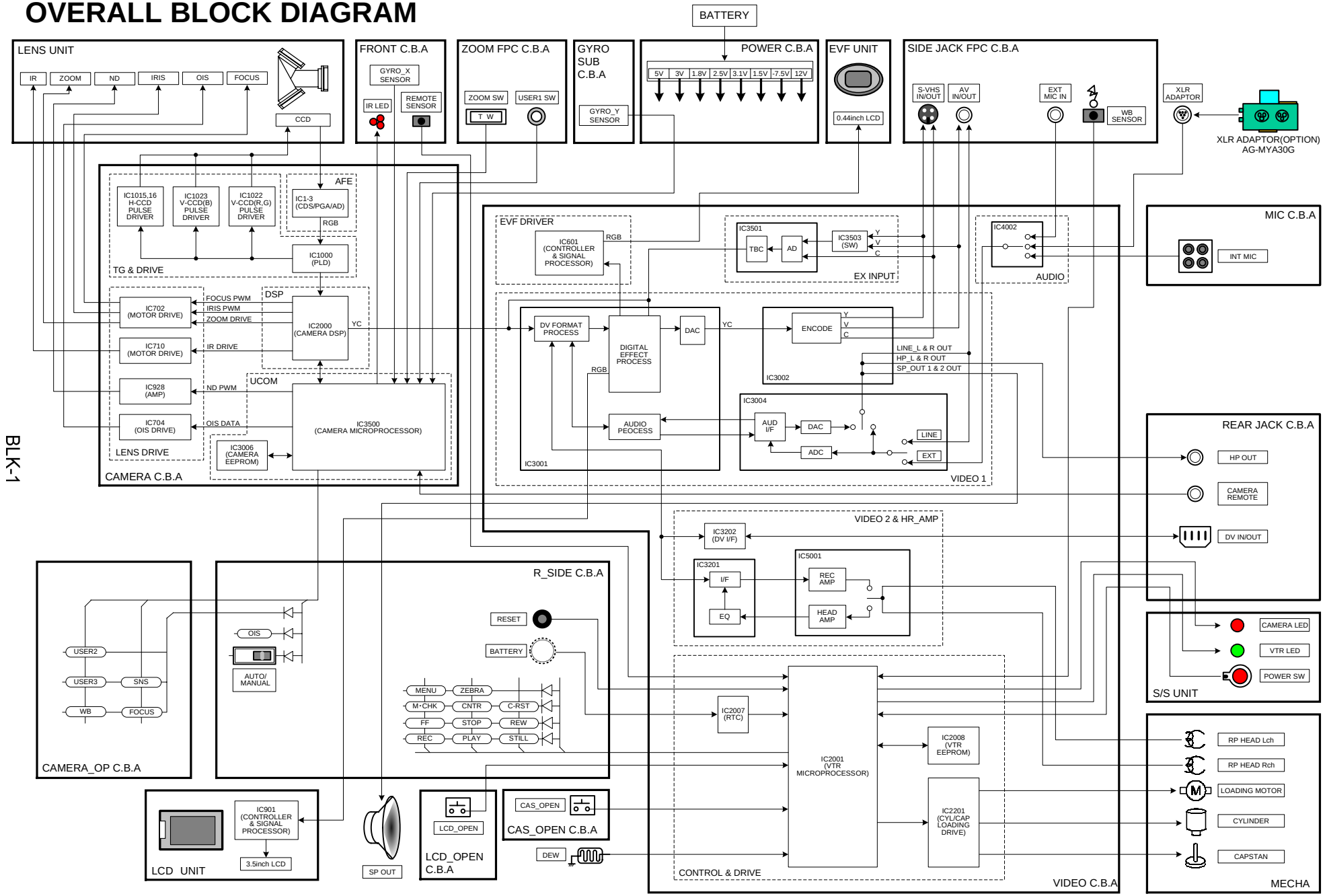
<< AG-DVC30/DVC32/DVC33 >>

OVERALL BLOCK DIAGRAM.....BLK-1
SENSOR/PROCESS (CAMERA) BLOCK DIAGRAM BLK-2
LENS DRIVE (CAMERA) BLOCK DIAGRAM.....BLK-3
VIDEO (VTR) BLOCK DIAGRAM BLK-4
MONITOR (VTR / LCD / EVF) BLOCK DIAGRAM BLK-5
CONTROL (VTR) BLOCK DIAGRAM.....BLK-6

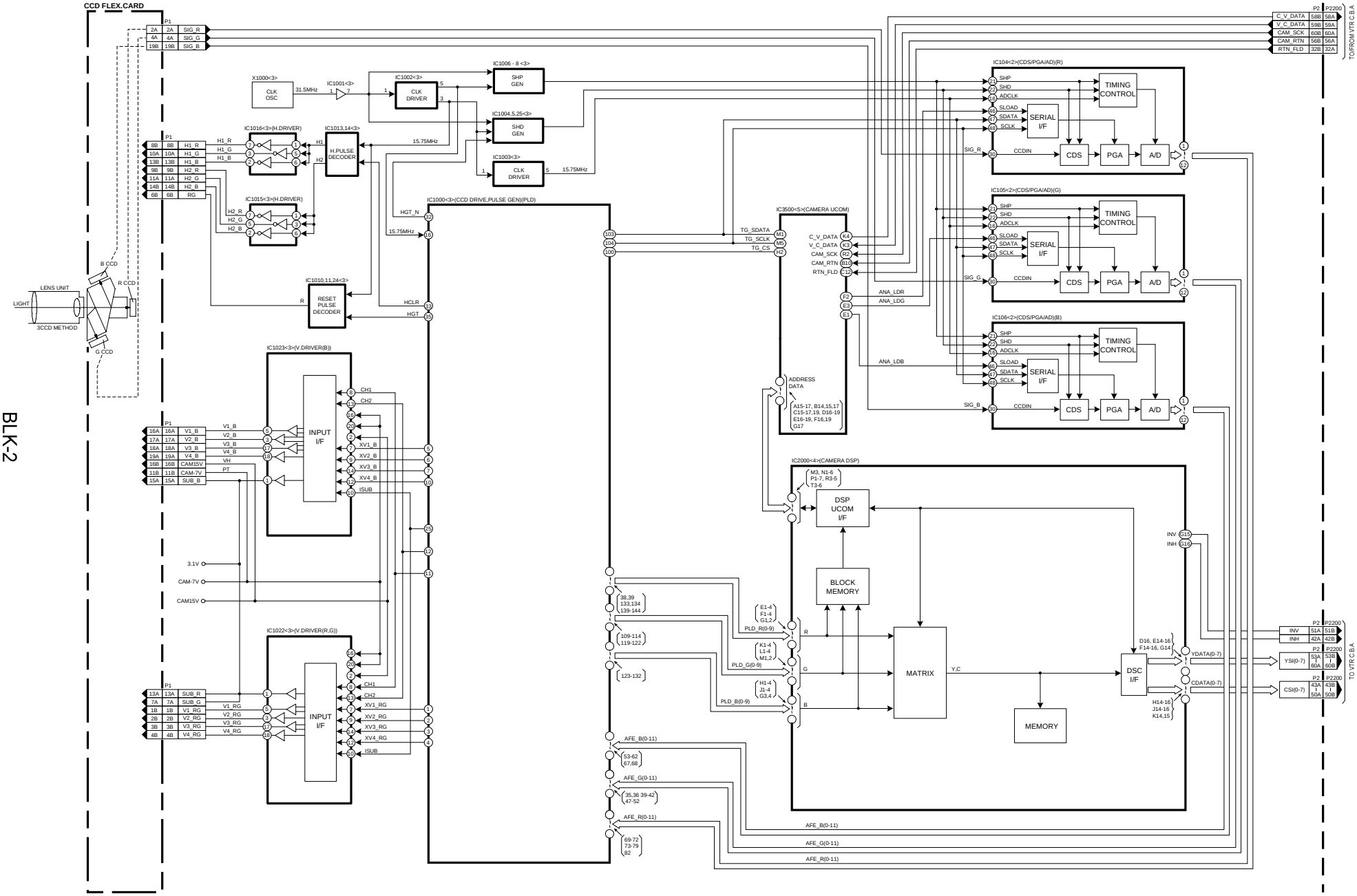
<< AG-MYA30G >>

OVERALL BLOCK DIAGRAM.....BLK-7

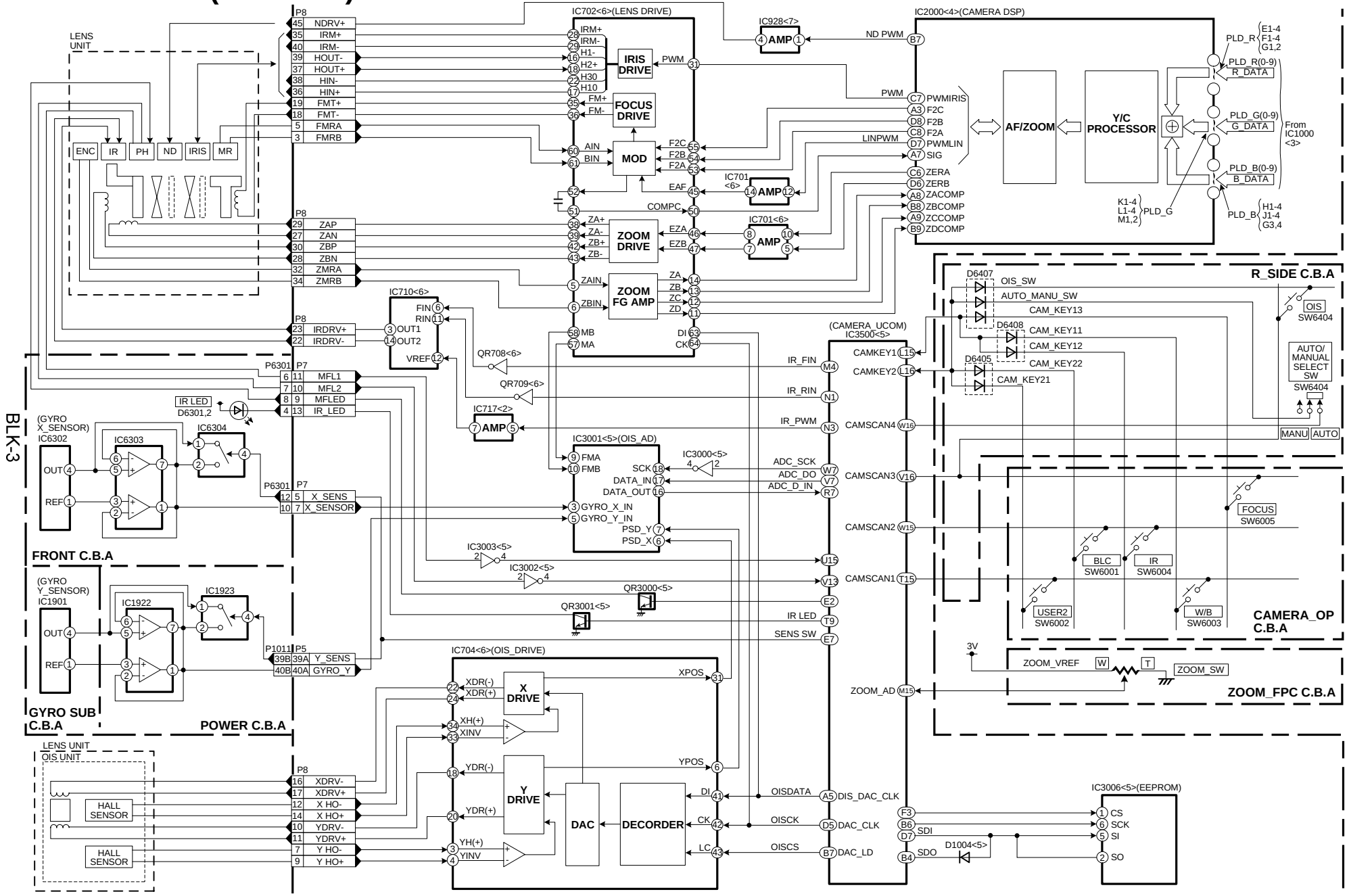
OVERALL BLOCK DIAGRAM



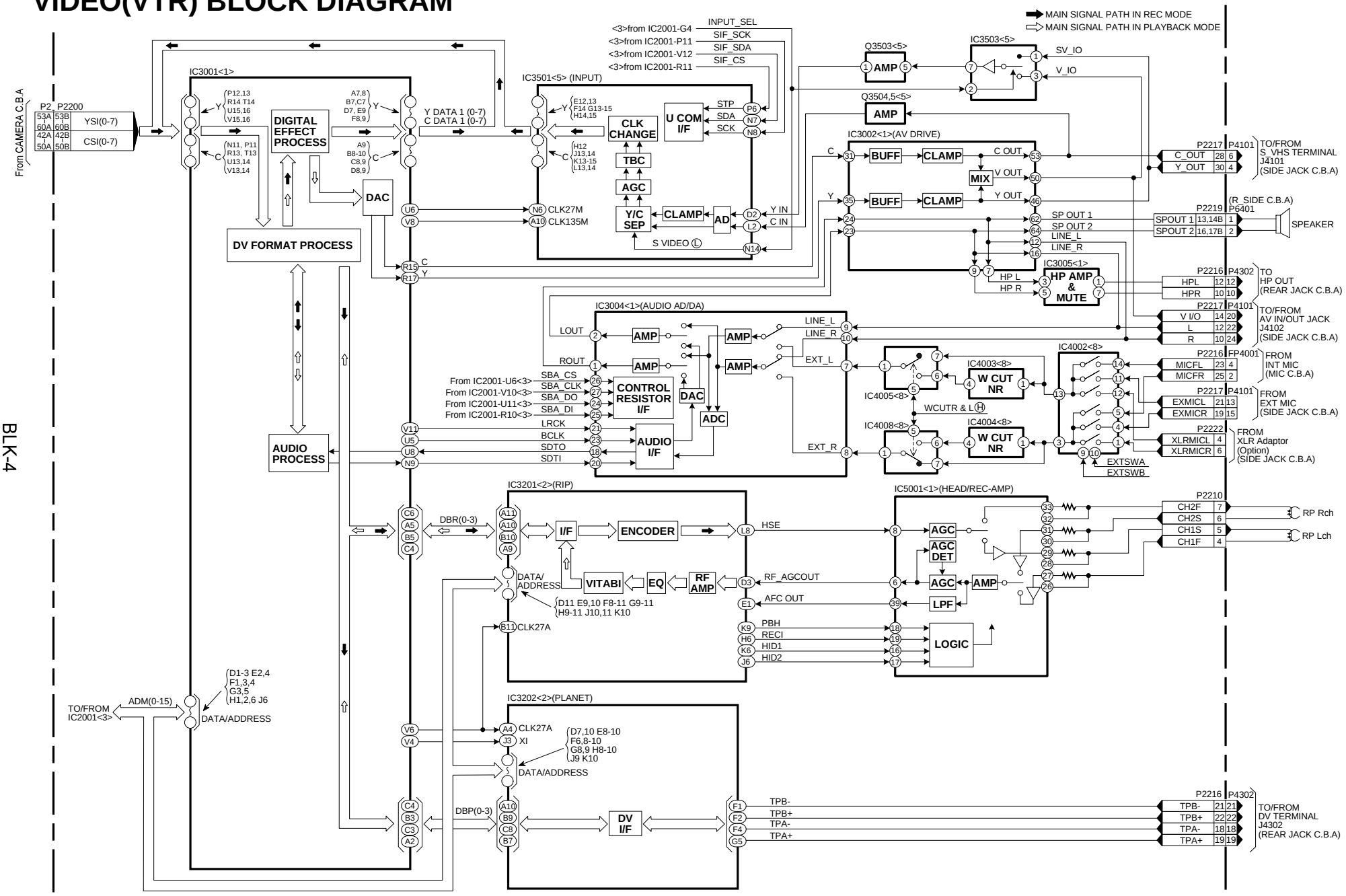
SENSOR/PROCESS(CAMERA) BLOCK DIAGRAM



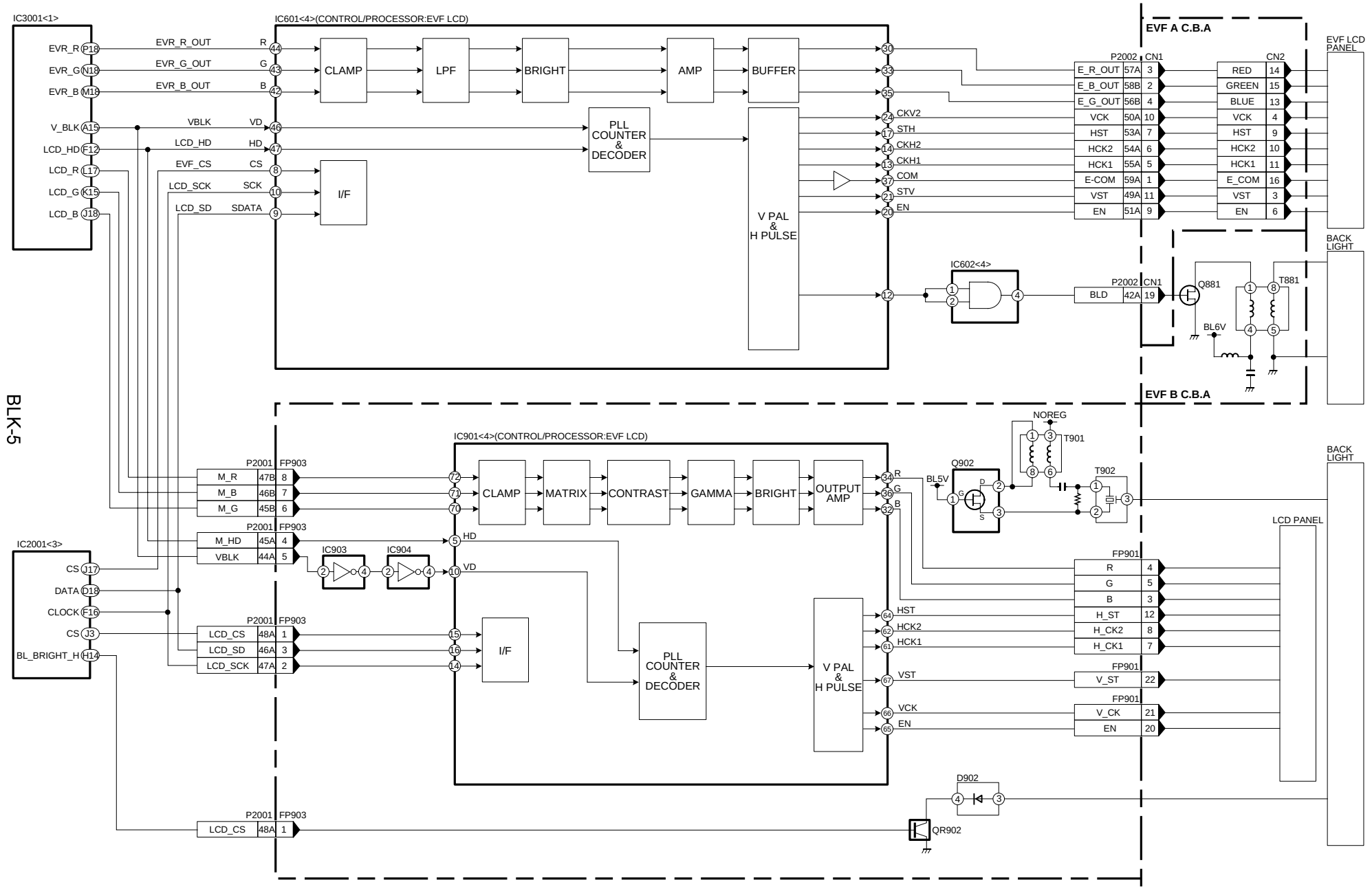
LENS DRIVE(CAMERA) BLOCK DIAGRAM



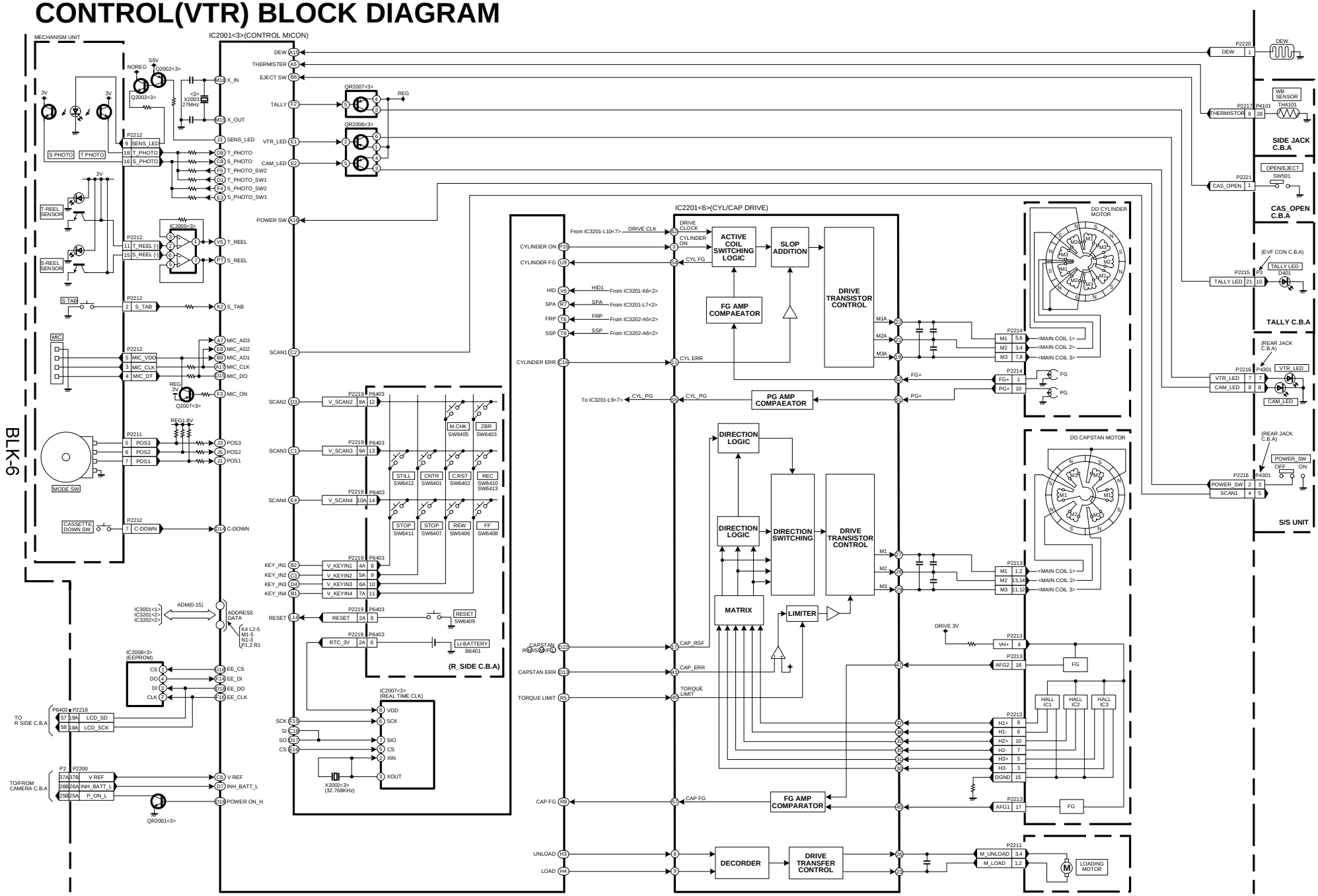
VIDEO(VTR) BLOCK DIAGRAM



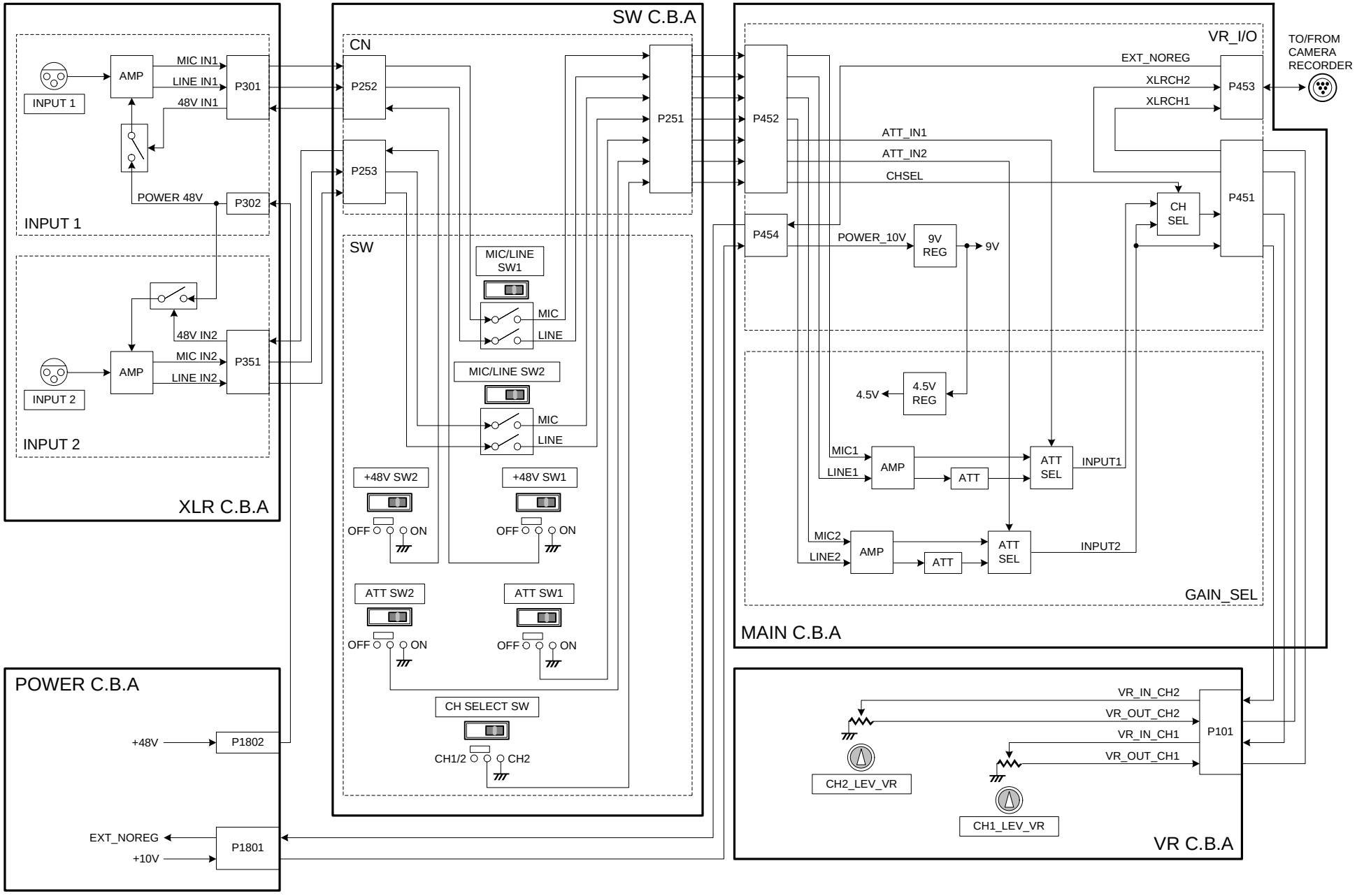
MONITOR(VTR/LCD/EVF) BLOCK DIAGRAM



CONTROL(VTR) BLOCK DIAGRAM

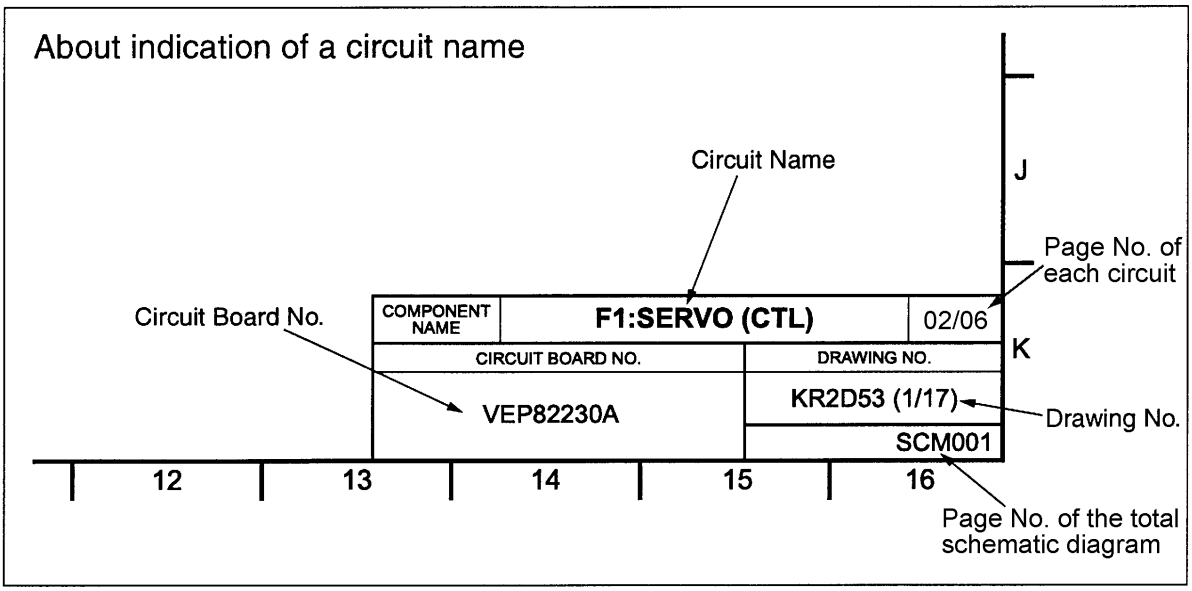


OVERALL BLOCK DIAGRAM (AG-MYA30G)



SECTION 6

SCHEMATIC DIAGRAMS



NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION8

CAUTION

THE [ ] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

<<AG-DVC30P/E DVC32EN DVC33MC>>

INTERCONNECTION
INTERCONNECTION (1/1) SCM001

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VTR (VIDEO_1) (1/9) SCM002
VTR (VIDEO_2) (2/9) SCM003
VTR (CONTROL) (3/9) SCM004
VTR (EVR_DRIVER) (4/9) SCM005
VTR (EX_INPUT) (5/9) SCM006
VTR (DRIVE) (6/9) SCM007
VTR (HR_AMP) (7/9) SCM008
VTR (AUDIO) (8/9) SCM009
VTR (CN) (9/9) SCM010

CAMERA
CAMERA (SUB_CN) (1/7) SCM011
CAMERA (AFE) (2/7) SCM012
CAMERA (TG & DRIVE) (3/7) SCM013
CAMERA (DSP) (4/7) SCM014
CAMERA (UCOM) (5/7) SCM015
CAMERA (LENS_DRIVE) (6/7) SCM016
CAMERA (ND_DRIVE) (7/7) SCM017

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POWER (2/2) SCM019

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R_SIDE (1/2) SCM020
R_SIDE (2/2) SCM021

CAMERA OP
CAMERA OP (1/1) SCM022

MENU FPC
MENU FPC (1/1) SCM023

FRONT
FRONT (1/1) SCM024

MF FPC
MF FPC (1/1) SCM025

SIDE JACK FPC
SIDE JACK FPC (1/1) SCM026

REAR JACK
REAR JACK (1/1) SCM027

BATTERY
BATTERY (1/1) SCM028

ZOOM FPC
ZOOM FPC (1/1) SCM029

ZOOM CON
ZOOM CON (1/1) SCM030

EVF CON
EVF CON (1/1) SCM031

MIC
MIC (1/1) SCM032

MONITOR
MONITOR (1/1) SCM033

EVF A
EVF A (1/1) SCM034

EVF B
EVF B (1/1) SCM034

LCD OPEN
LCD OPEN (1/1) SCM034

CAS OPEN
CAS OPEN (1/1) SCM034

TALLY
TALLY (1/1) SCM035

SUB REC
SUB REC (1/1) SCM035

DC IN
DC IN (1/1) SCM035

<<AG-MYA30G;OPTION>>

XLR
XLR (INPUT 1) (1/2) SCM036
XLR (INPUT 2) (2/2) SCM037

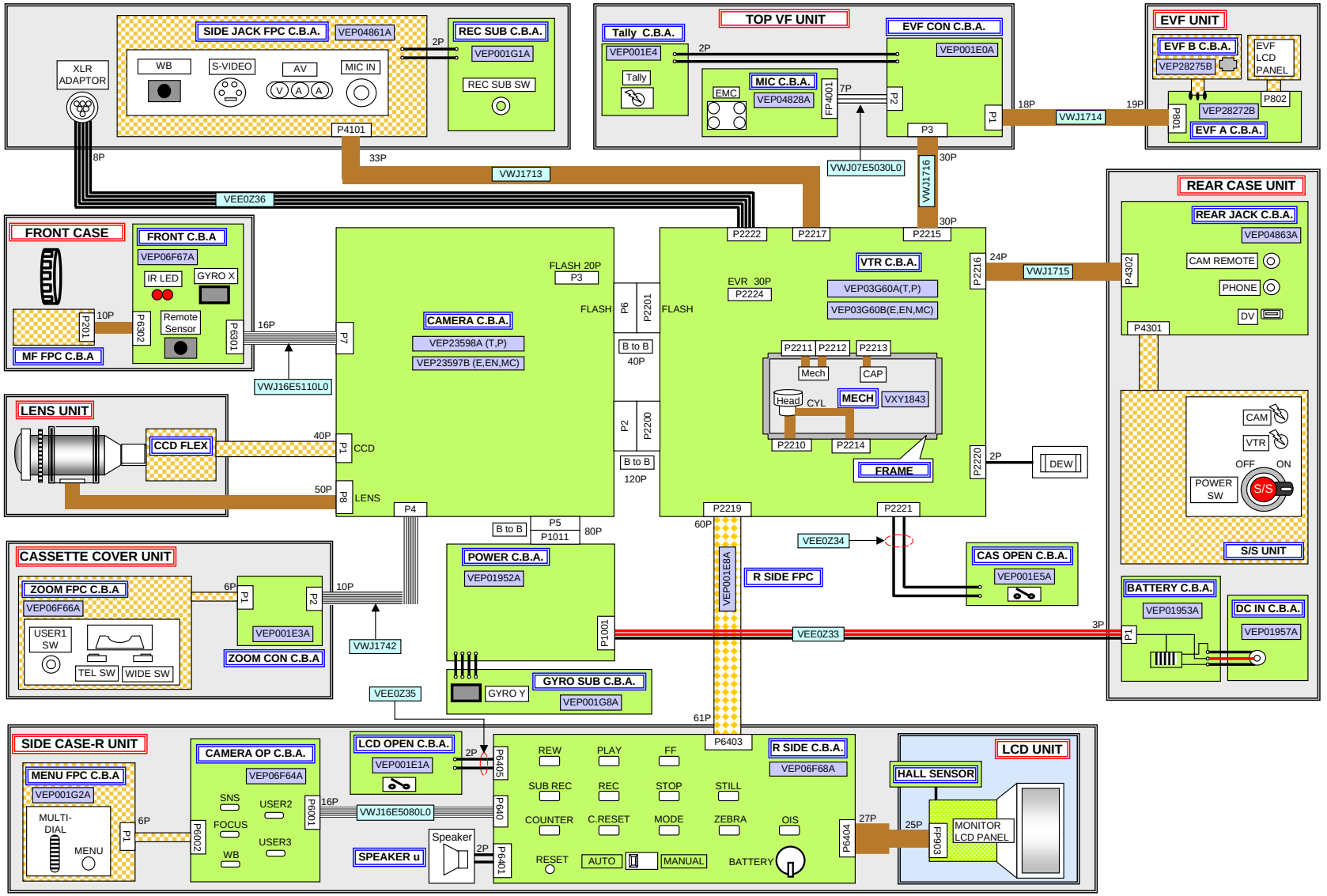
SW
SW (SW) (1/2) SCM038
SW (CN) (2/2) SCM039

MAIN
MAIN (GAIN SEL) (1/2) SCM040
MAIN (VR I/O) (2/2) SCM041

POWER
POWER (1/1) SCM042

VR
VR (1/1) SCM043

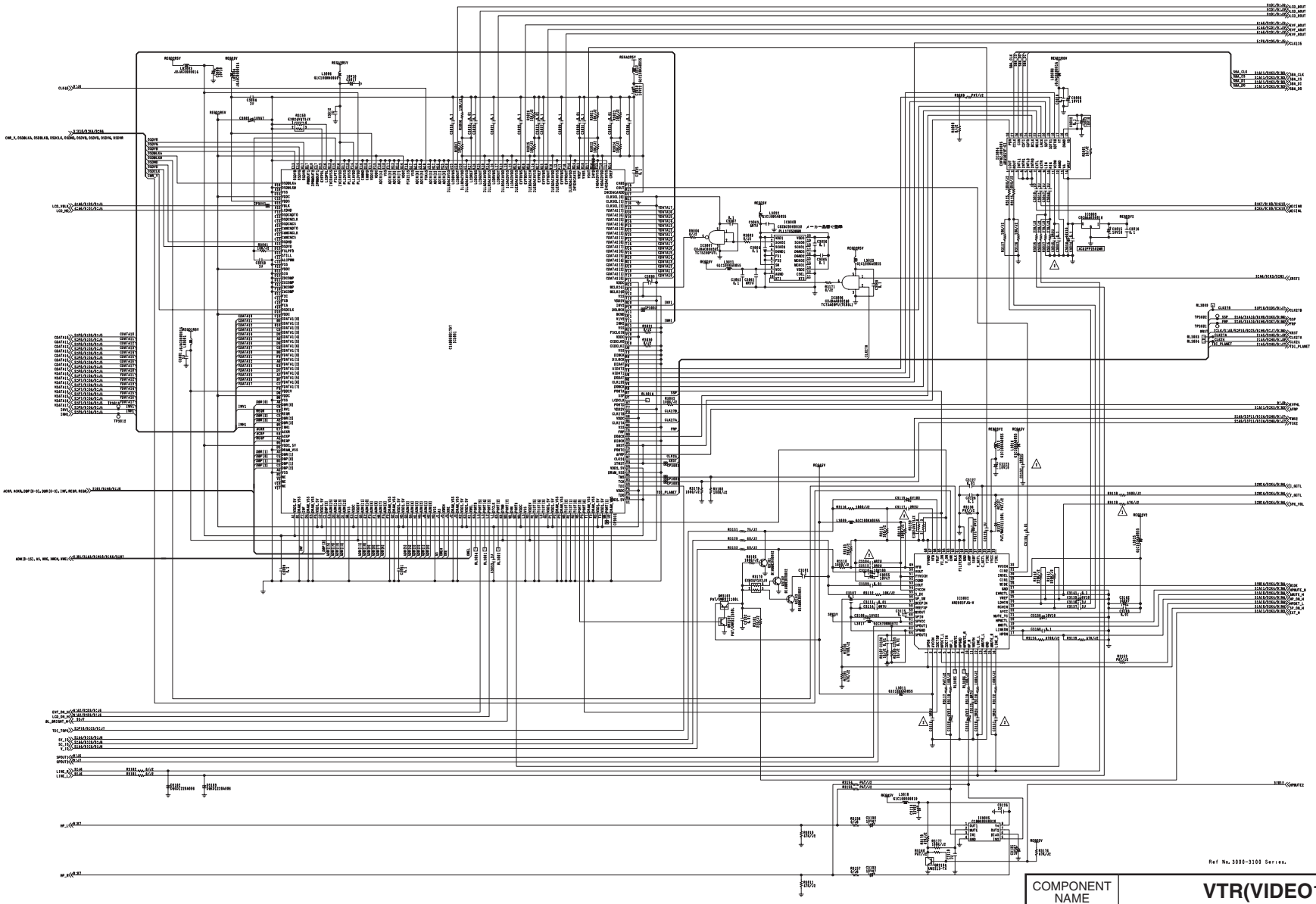
INTERCONNECTION



COMPONENT NAME	INTERCONNECTION	01/01
CIRCUIT BOARD NO.		DRAWING NO. (1/1)
		SCM001

A B C D E F G H I J

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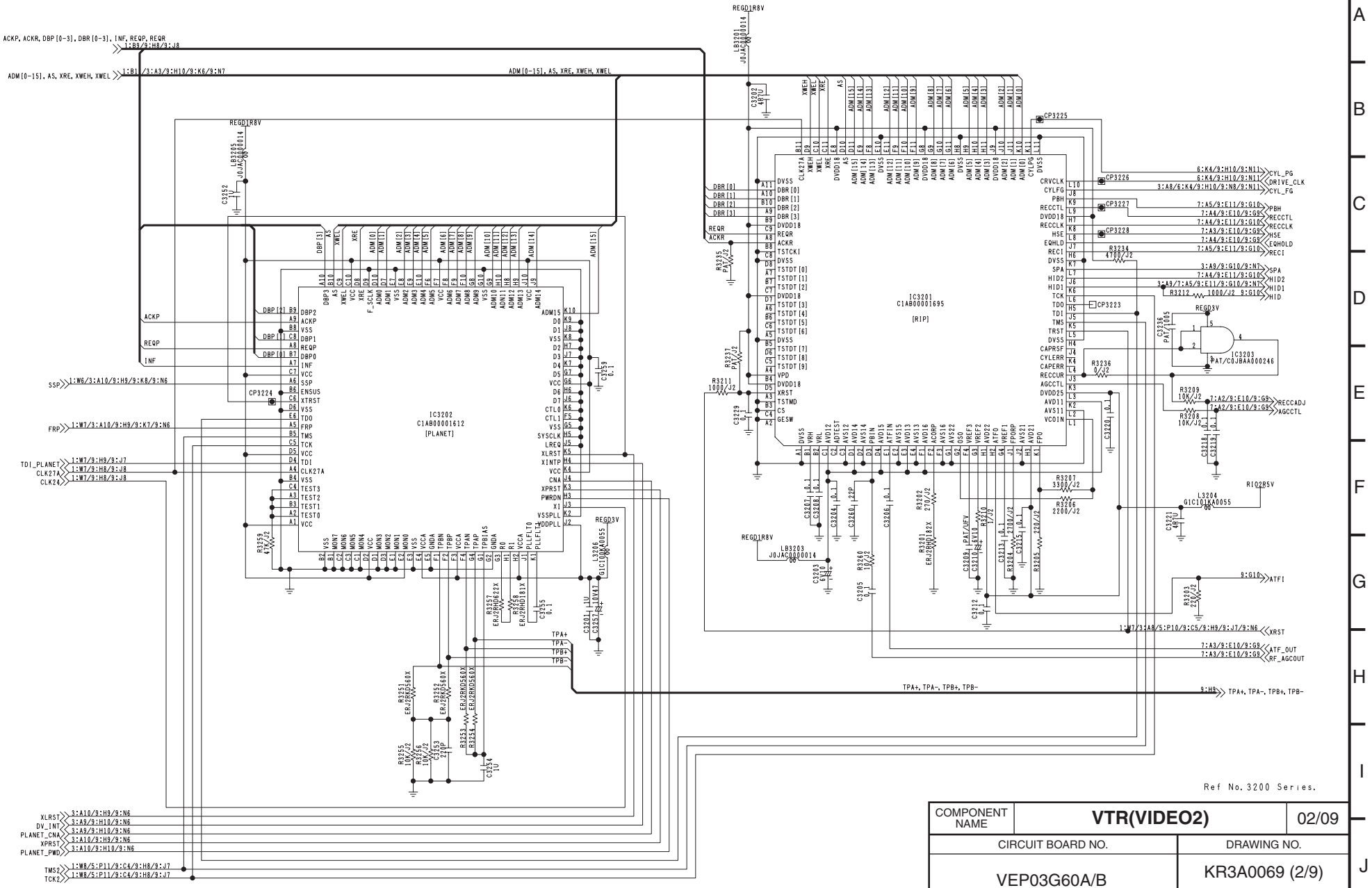


Ref No.3000-3100 Series.

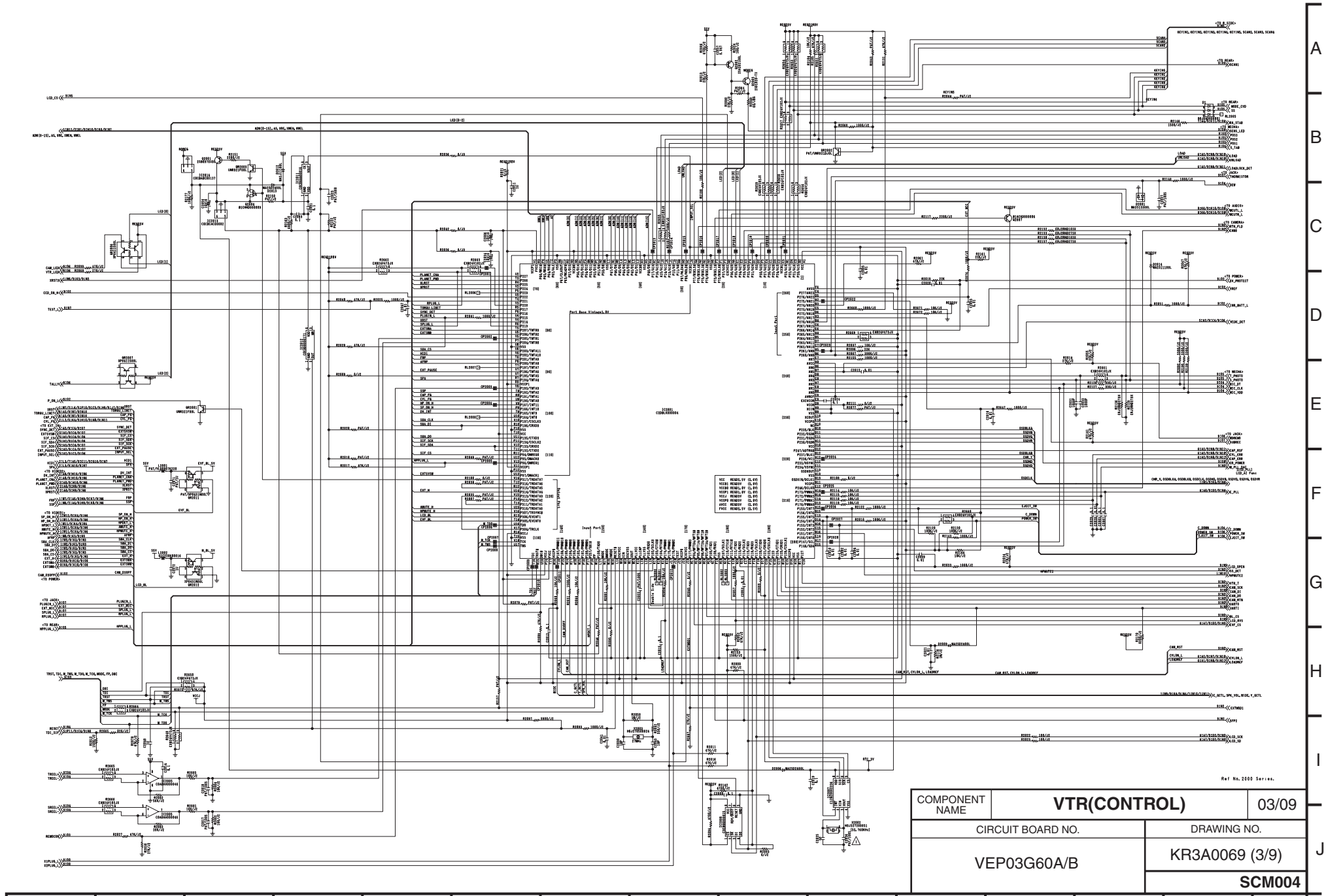
COMPONENT NAME	VTR(VIDEO1)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (1/9)
		SCM002

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

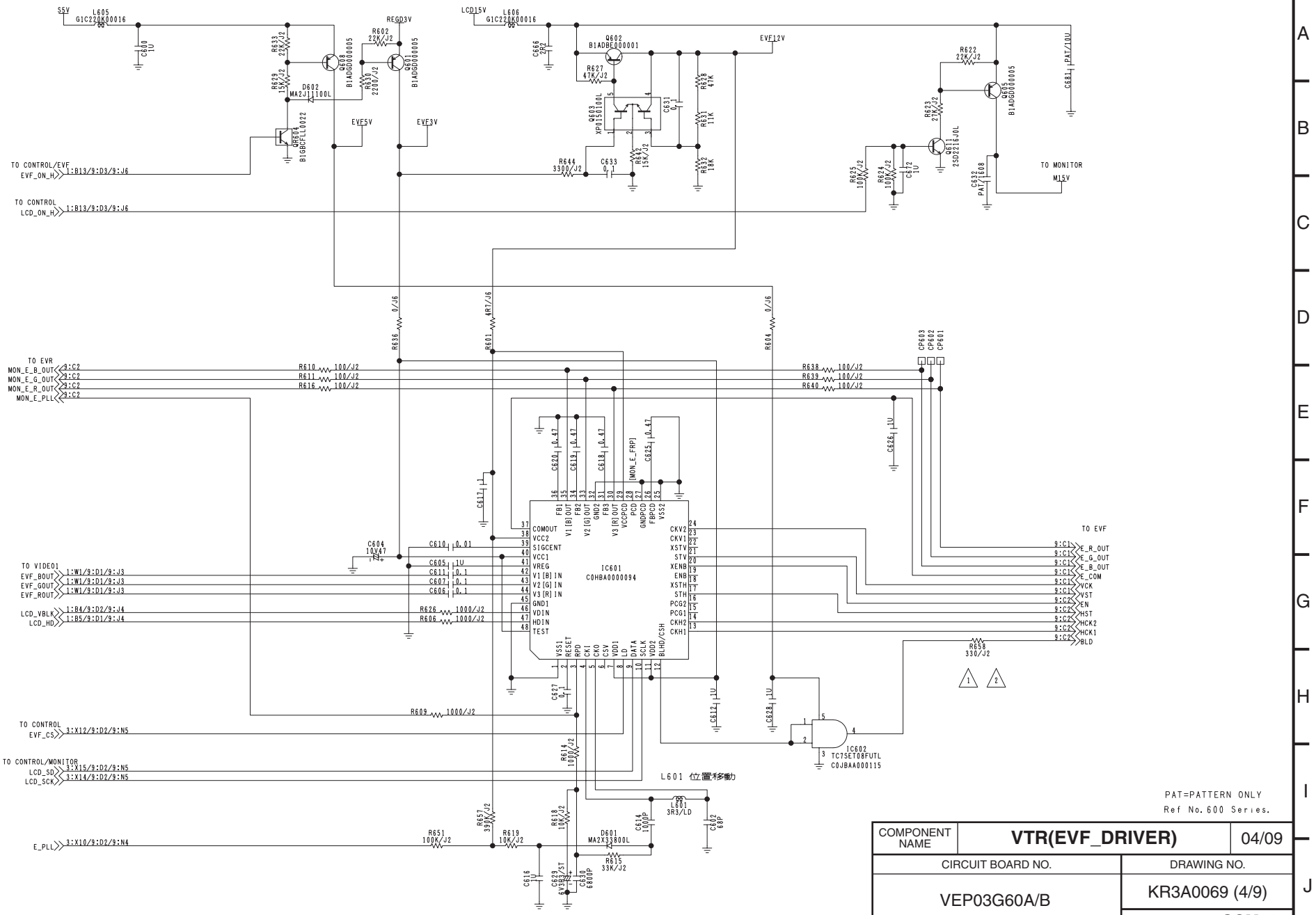


COMPONENT NAME	VTR(VIDEO2)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (2/9)
		SCM003



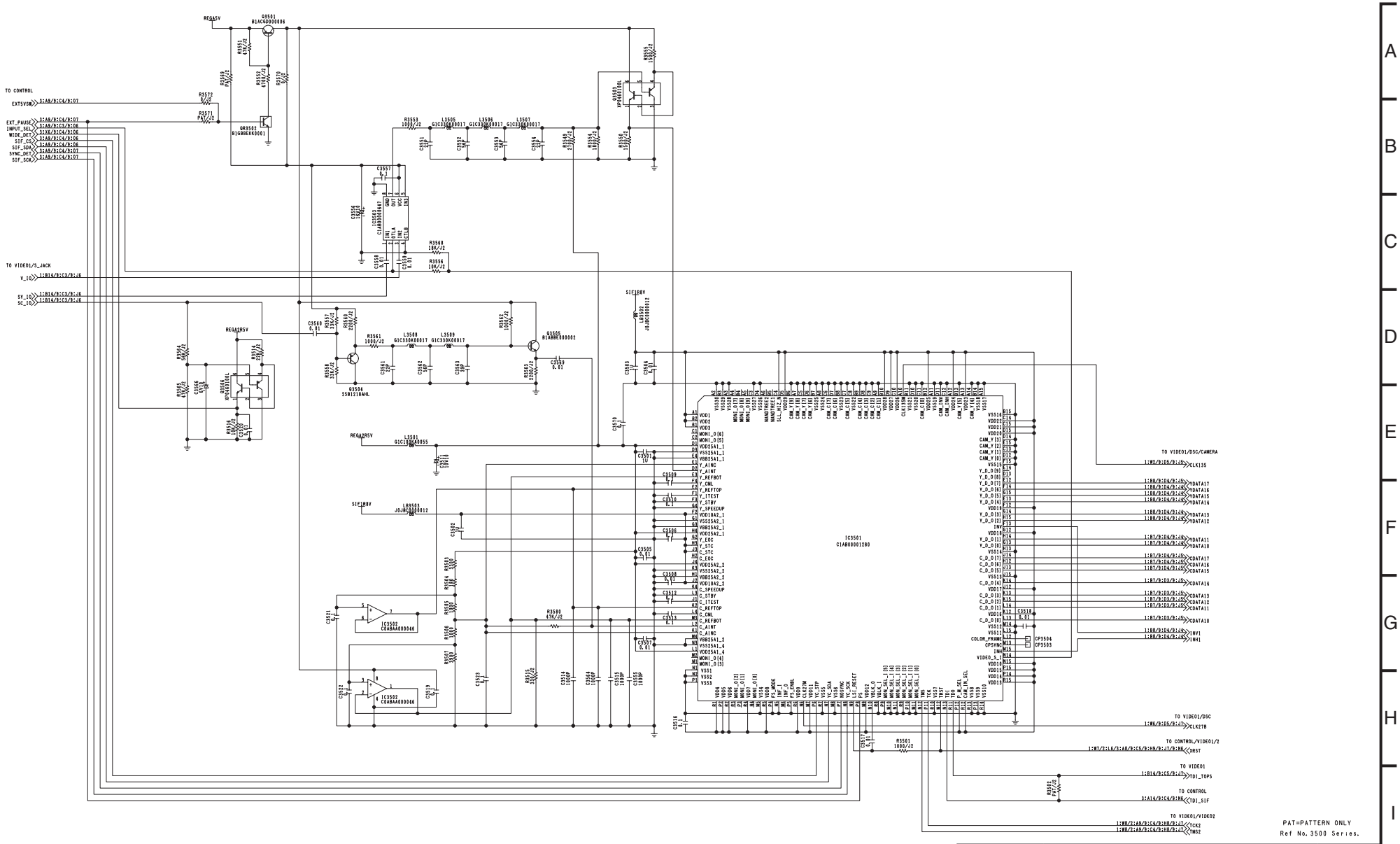
COMPONENT NAME	VTR(CONTROL)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (3/9)
		SCM004

Ref No. 2000 Series.



PAT=PATTERN ONLY
Ref No. 600 Series.

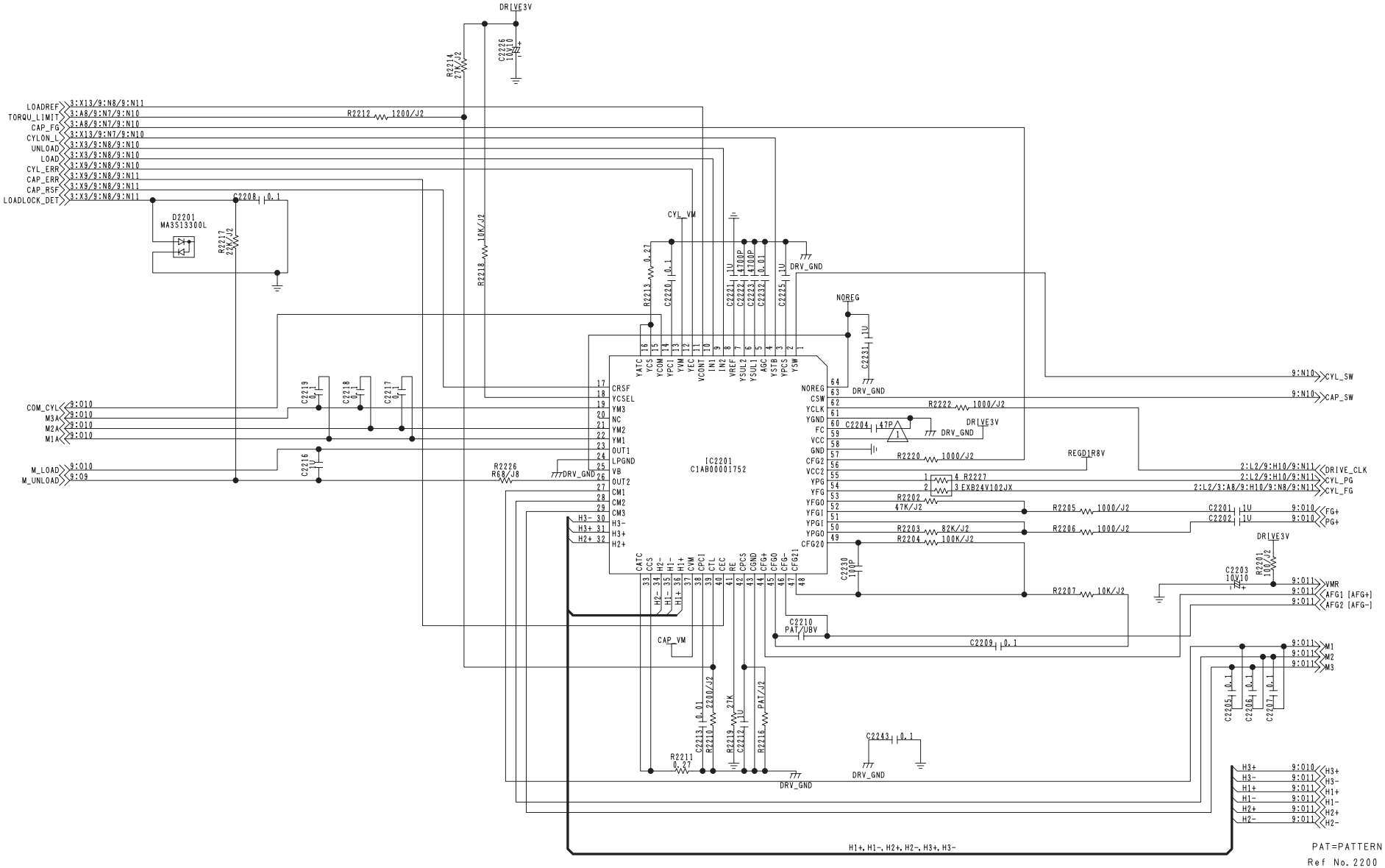
COMPONENT NAME	VTR(EVF_DRIVER)	04/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (4/9)
		SCM005



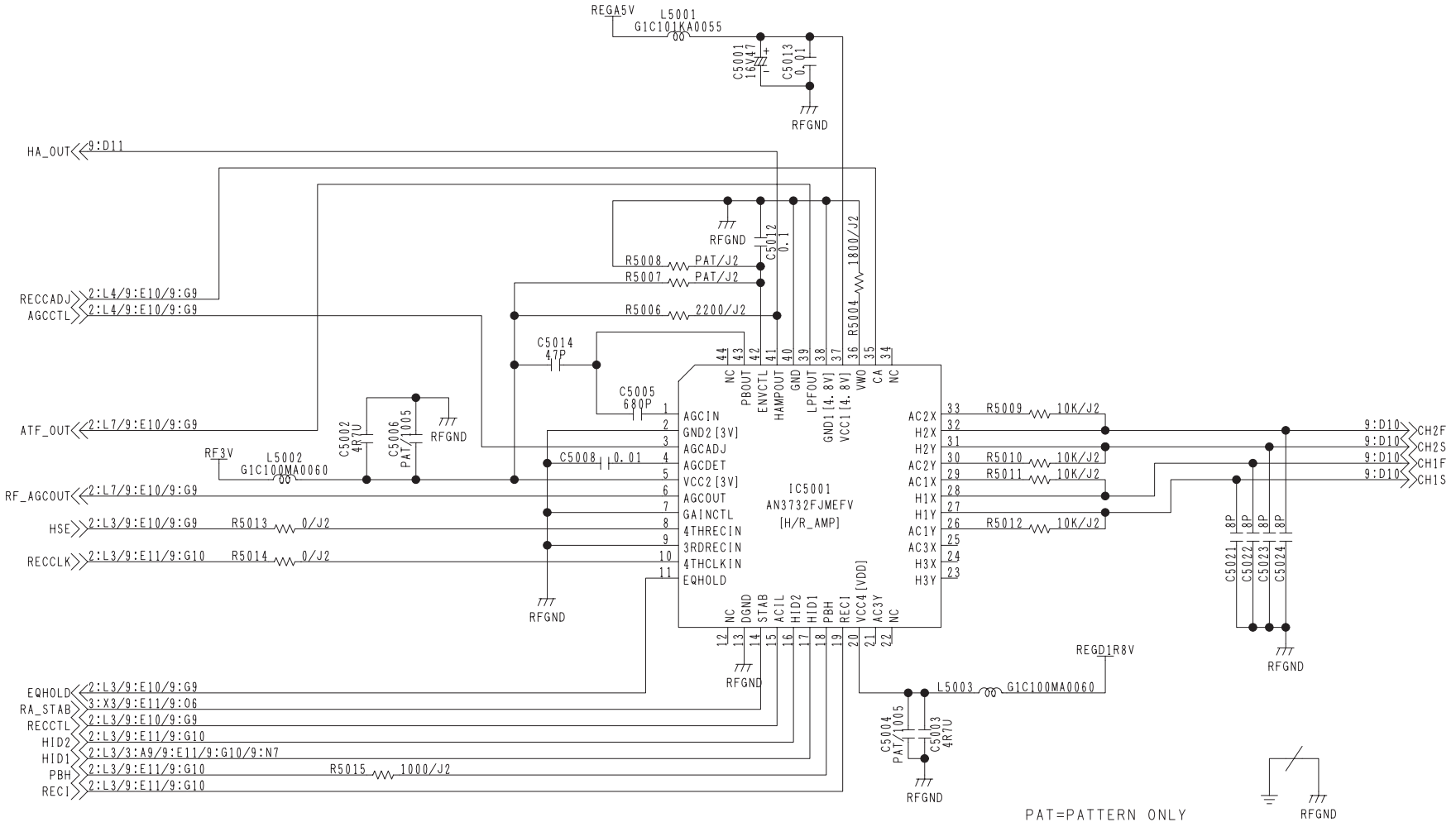
Ref No.	-T,-P,-AN	-E,-NC
C3520	ECJ0WB1C103K	PAT
C3566	ECJ0WB1C103K	PAT
R3506	XP4A0210L	PAT
R3514	ERJ2GEJ223X	PAT
R3564	ERJ2GEJ563X	PAT
R3565	ERJ2GEJ473X	PAT

PAT=PATTERN ONLY
Ref No. 3500 Series.

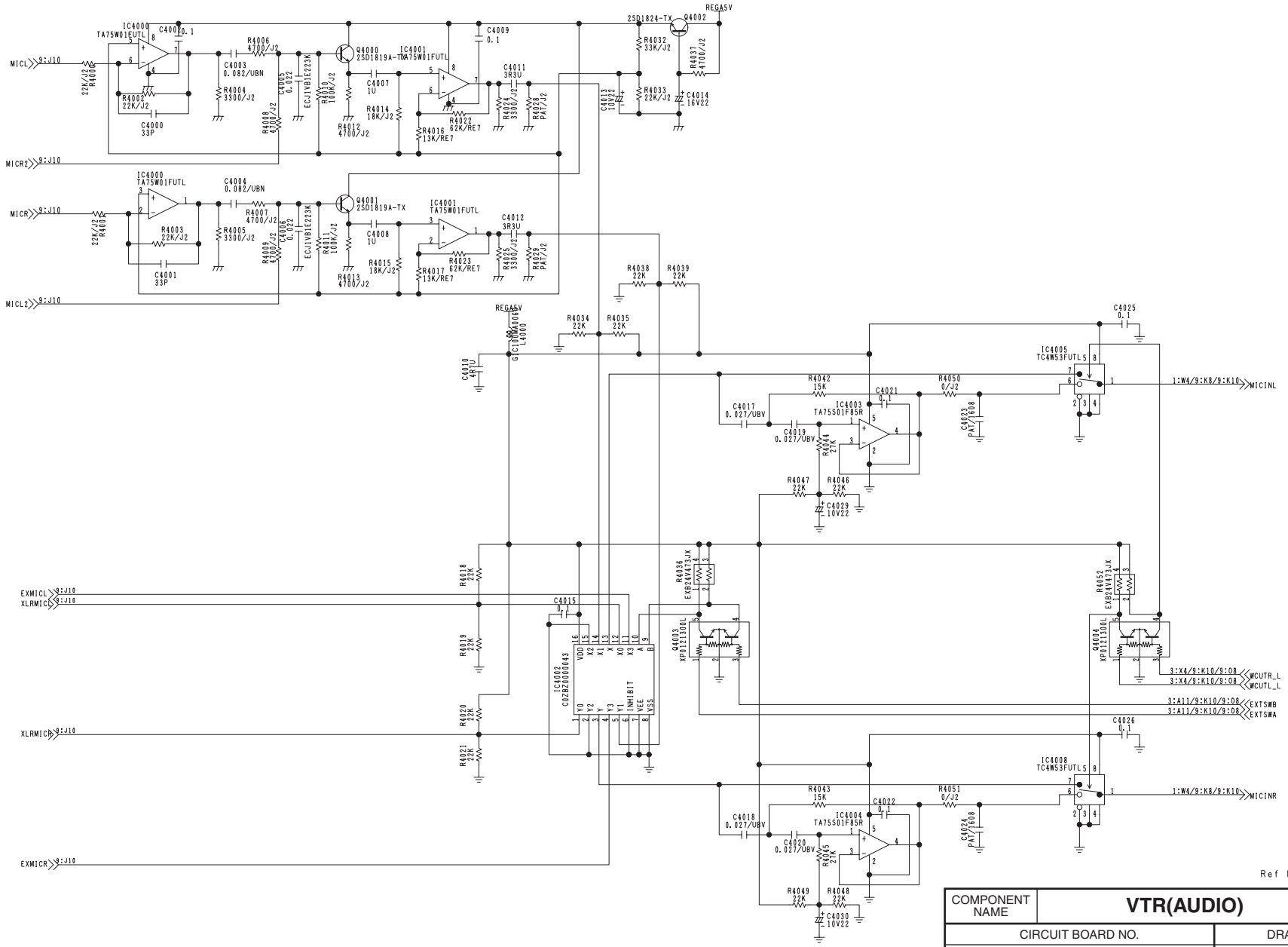
COMPONENT NAME	VTR(EX_INPUT)	05/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (5/9)
		SCM006



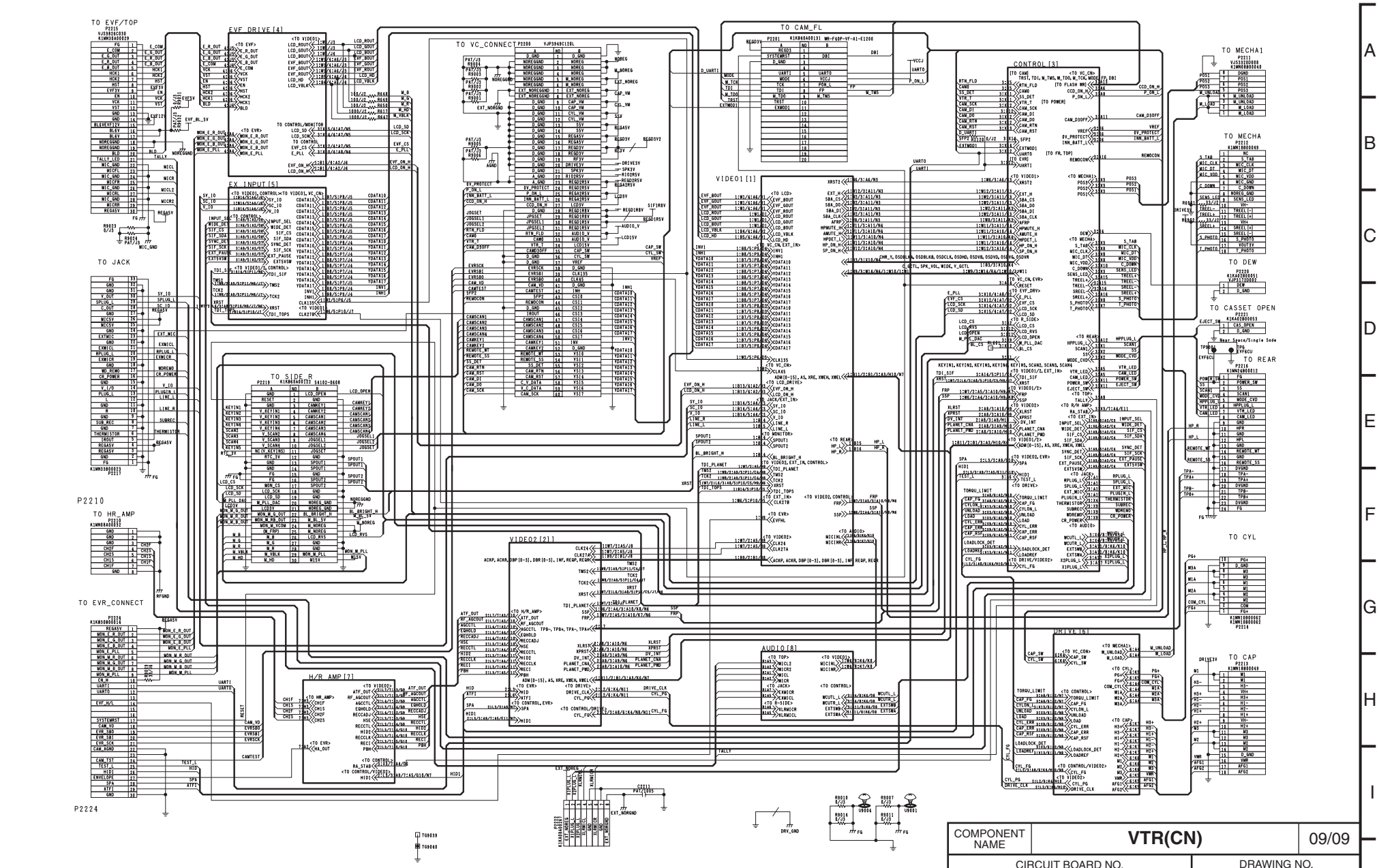
COMPONENT NAME	VTR(DRIVE)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (6/9)
		SCM007

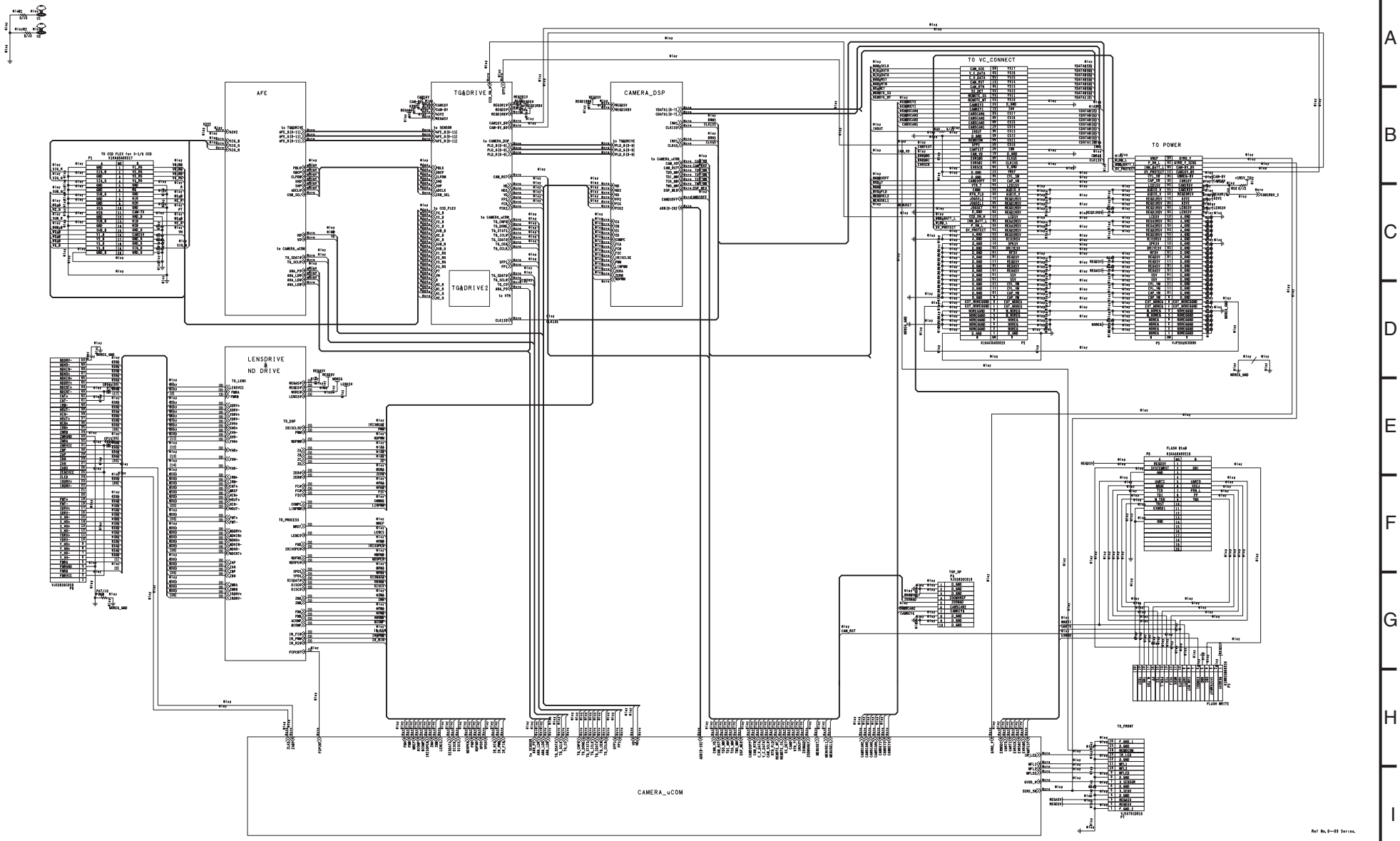


COMPONENT NAME	VTR(HR_AMP)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (7/9)
		SCM008



COMPONENT NAME	**VTR(AUDIO)**	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (8/9)	
	SCM009	

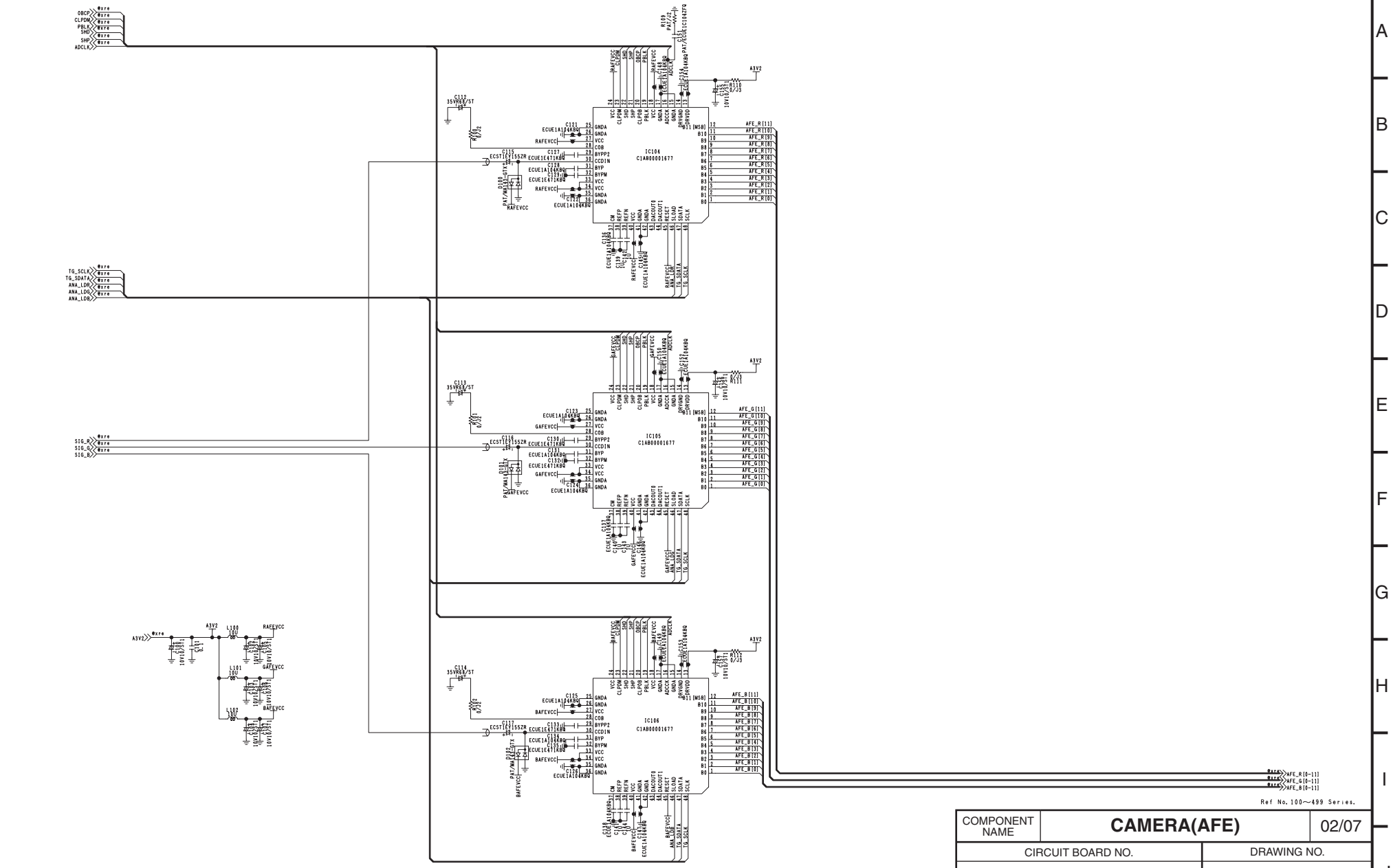

TO EVF/TOP
EVF DRIVE [4]
TO VC_CONNECT
TO CAM_FL
CONTROL [3]
TO MECHA1
TO MECHA
VIDEO1 [1]
TO CASSET OPEN
TO JACK
EX INPUT [5]
TO DEW
TO REAR
TO SIDE_R
TO CYL
TO HR_AMP
VIDEO2 [2]
TO CAP
TO EVR_CONNECT
AUDIO [8]
DRIVE [6]
H/R AMP [7]
P2210
P2224
COMPONENT NAME
VTR(CN)
09/09
CIRCUIT BOARD NO.
VEP03G60A/B
DRAWING NO.
KR3A0069 (9/9)
SCM010



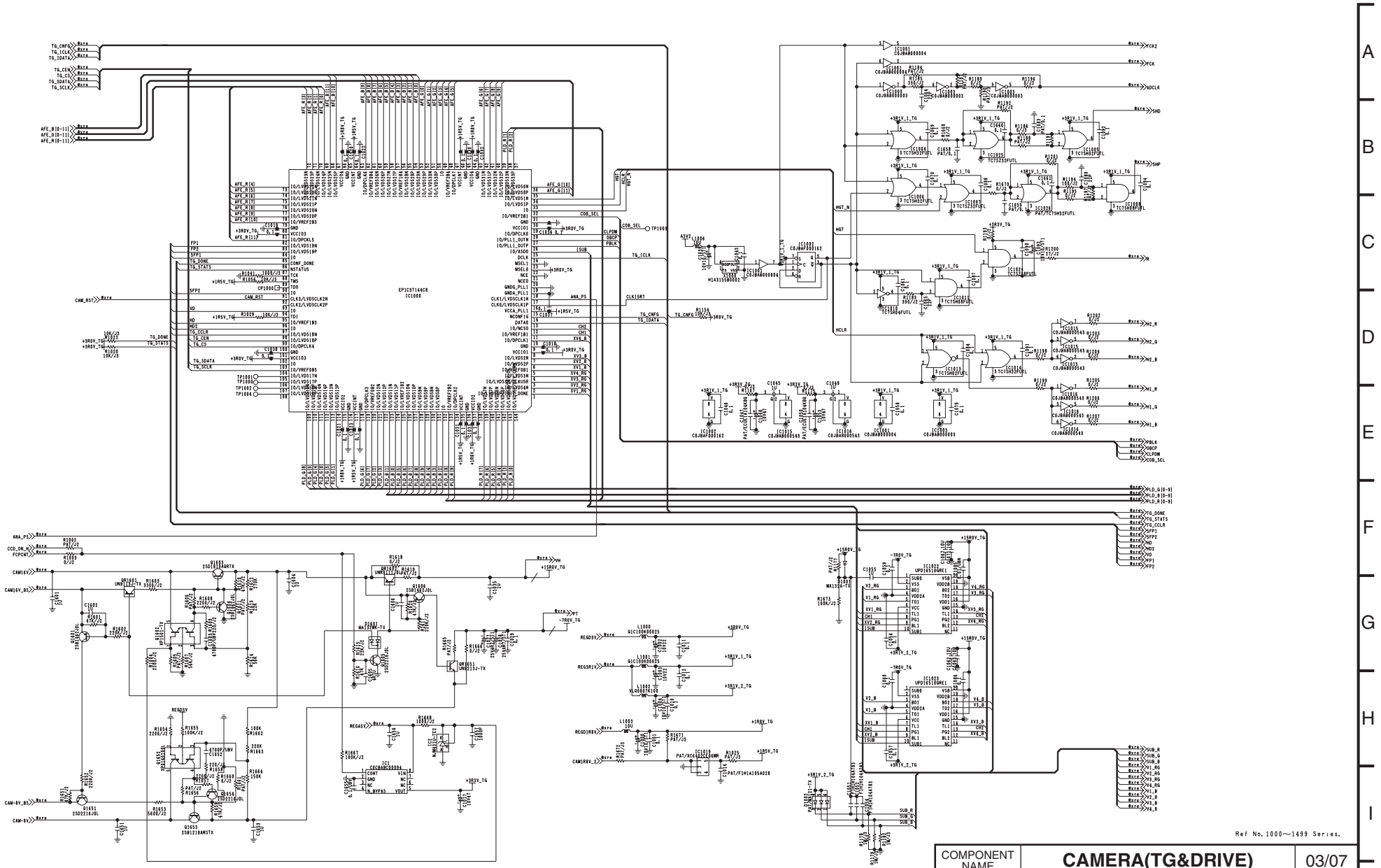
COMPONENT NAME	**CAMERA(SUB_CN)**	01/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (1/7)
		SCM011

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

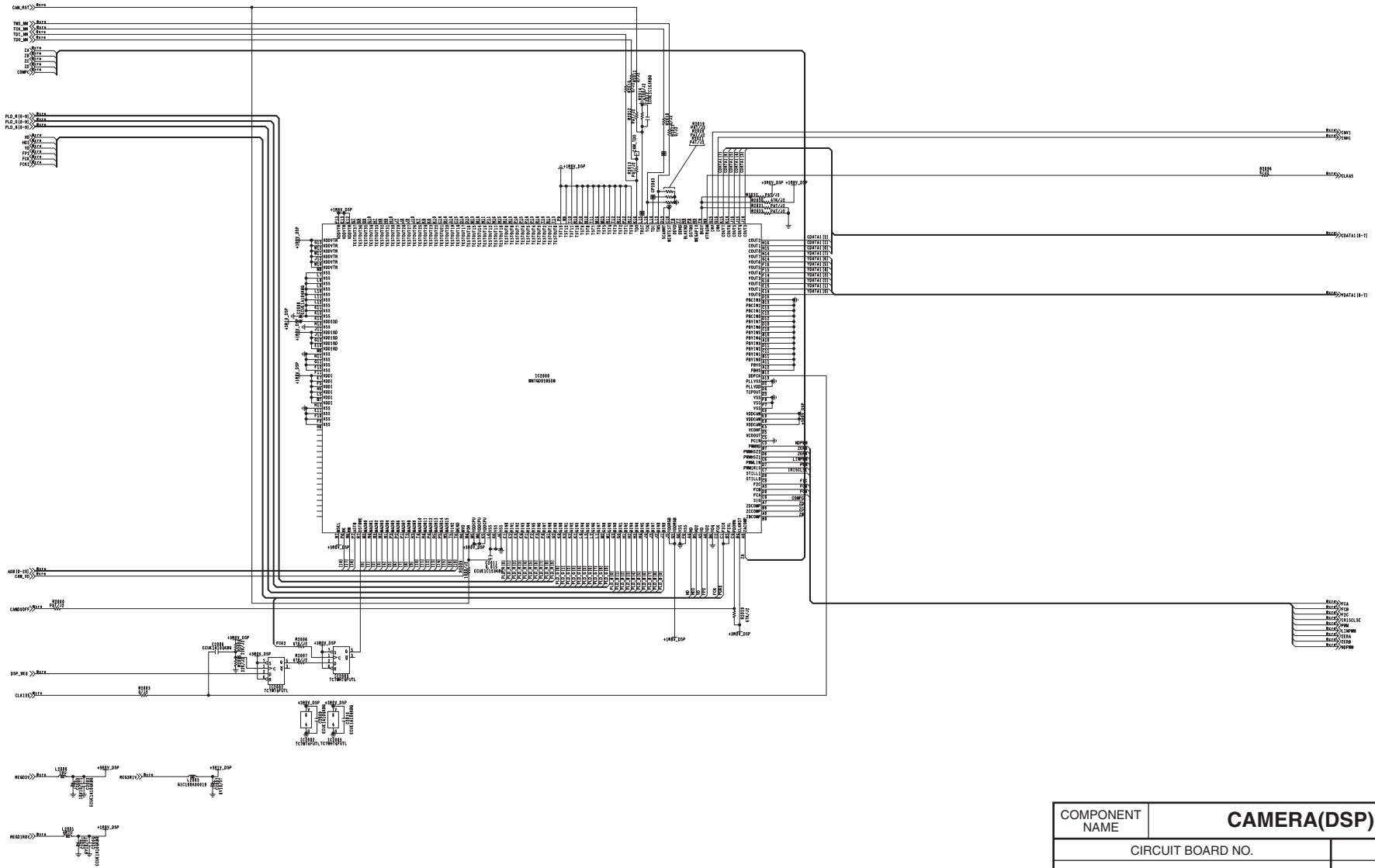


COMPONENT NAME	CAMERA(AFE)	02/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (2/7)
		SCM012



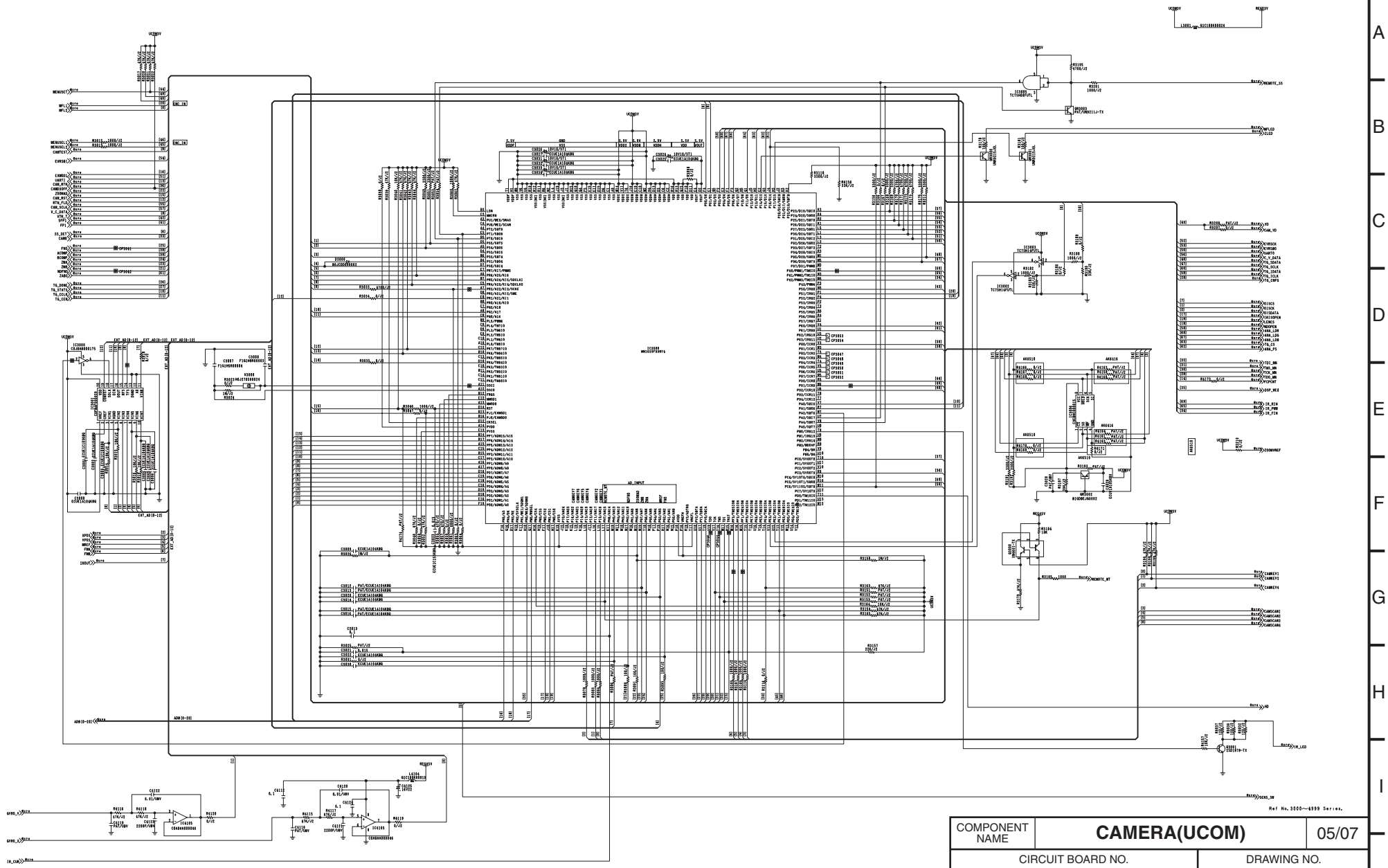
Ref No. 1000～1499 Series.

COMPONENT NAME	CAMERA(TG&DRIVE)	03/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (3/7)
		SCM013

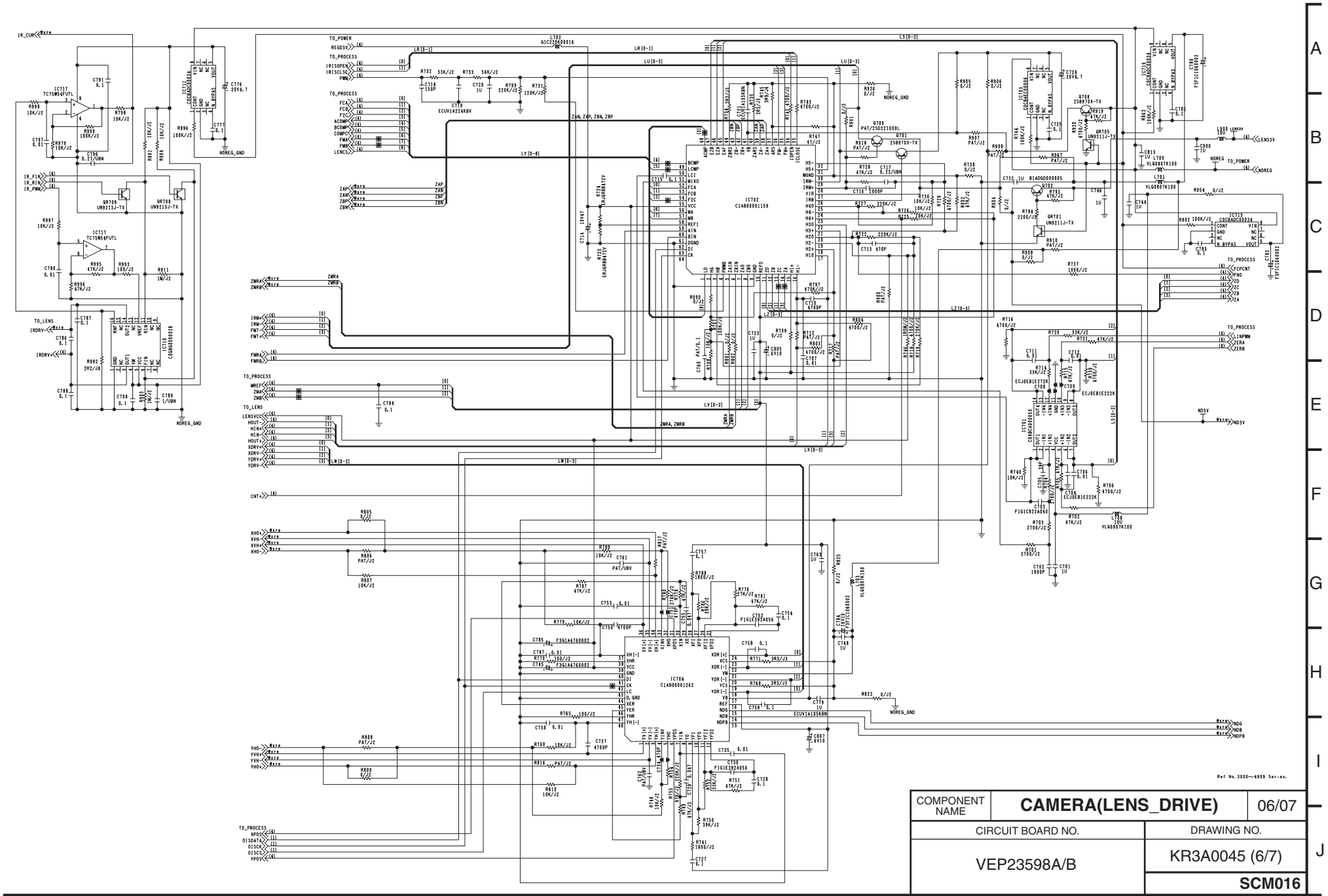


Ref No. 2000~2999 Series.

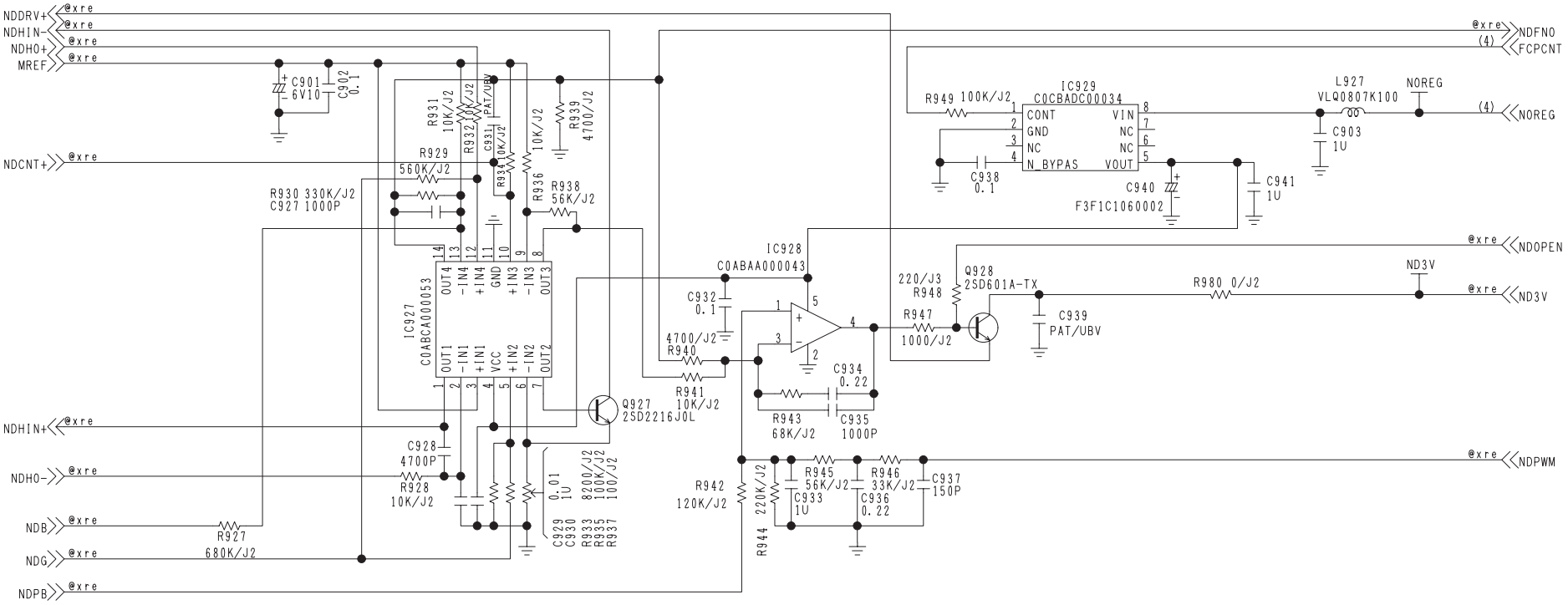
COMPONENT NAME	CAMERA(DSP)	04/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (4/7)
		SCM014



COMPONENT NAME	CAMERA(UCOM)	05/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (5/7)
		SCM015

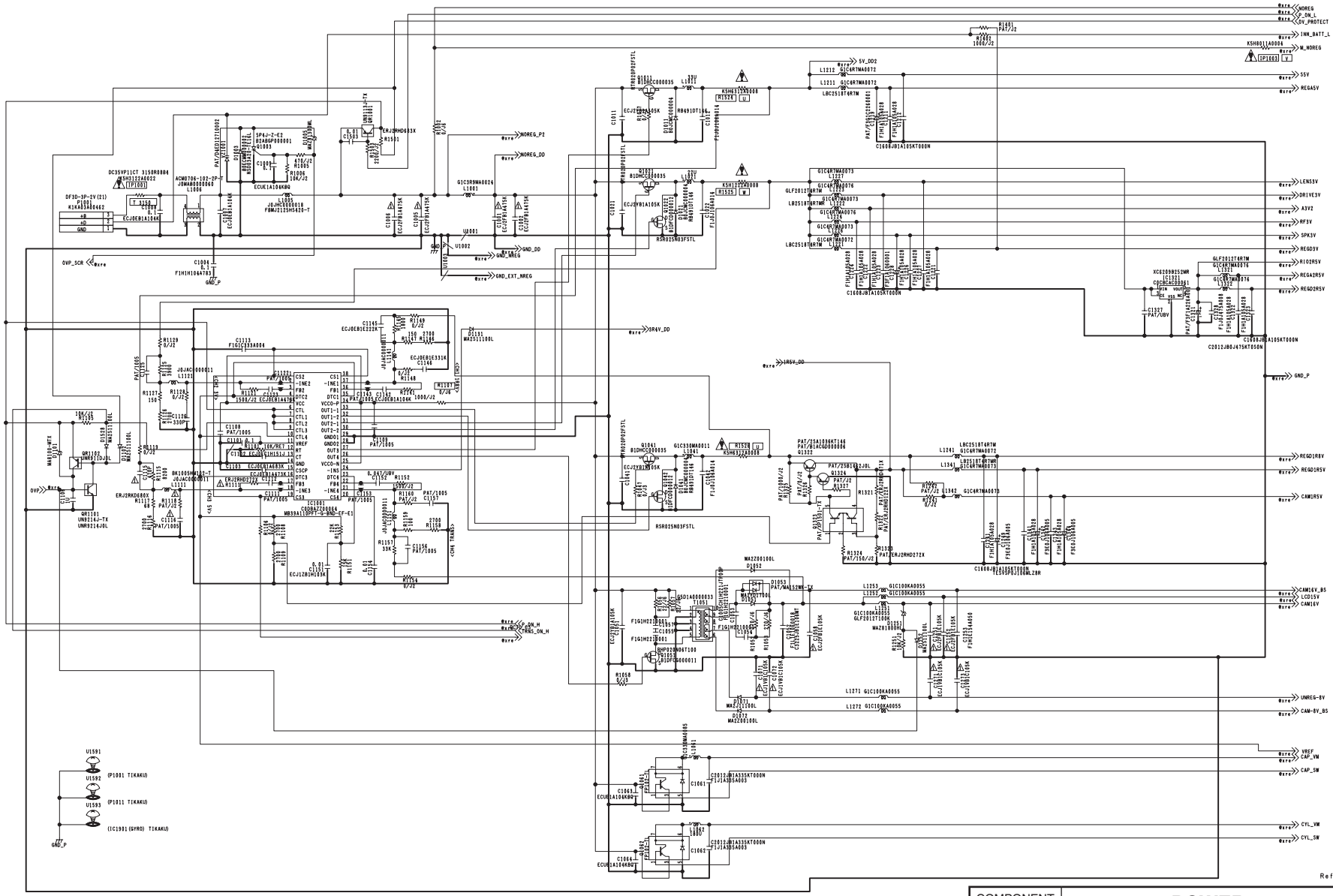


COMPONENT NAME	CAMERA(LENS_DRIVE)	06/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (6/7)
		SCM016



Ref No. 900～999 Series.

COMPONENT NAME	CAMERA(ND_DRIVE)	07/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (7/7)
		SCM017

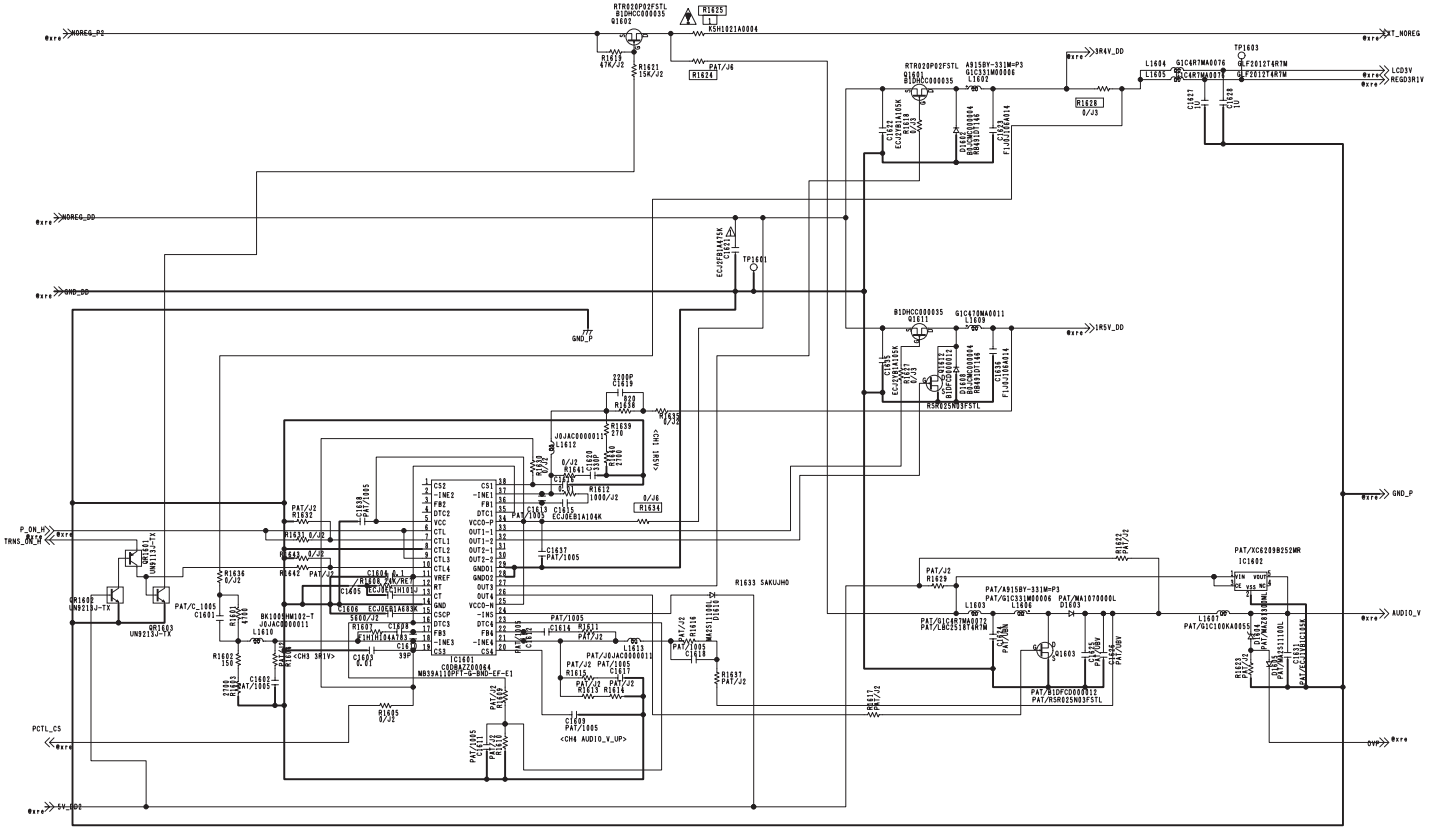


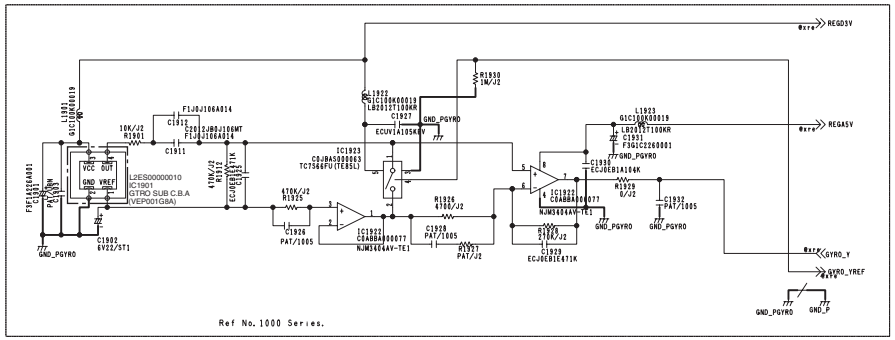
Ref No. 1000 Series.

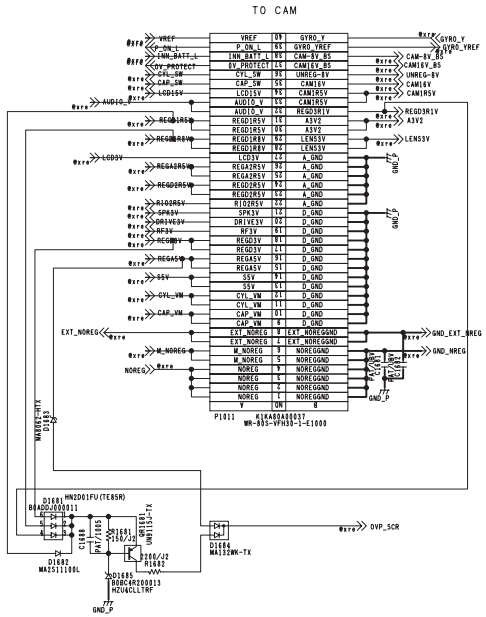
COMPONENT NAME	POWER	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01952A		KR1A0057 (1/2)
		SCM018

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠警告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。





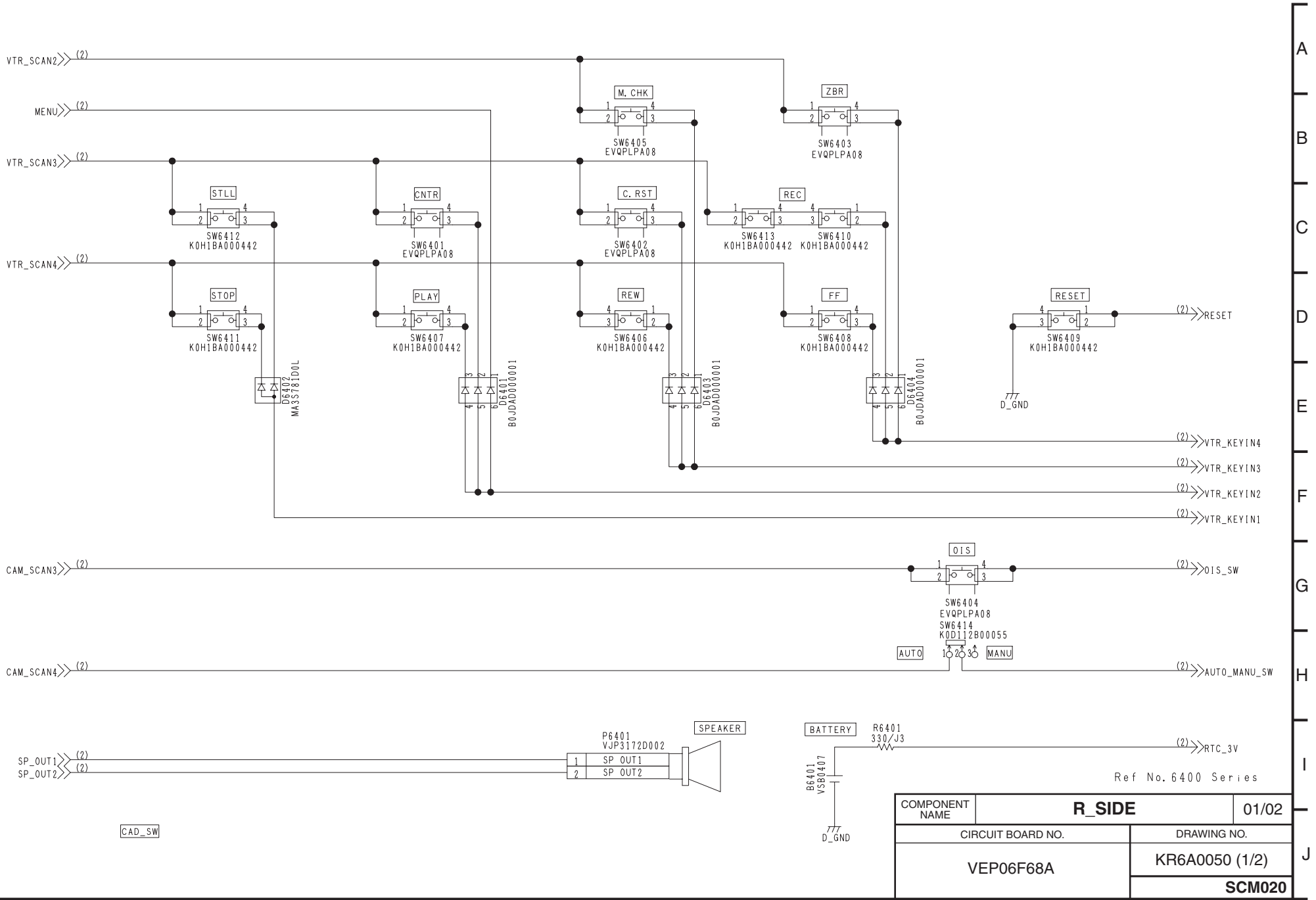


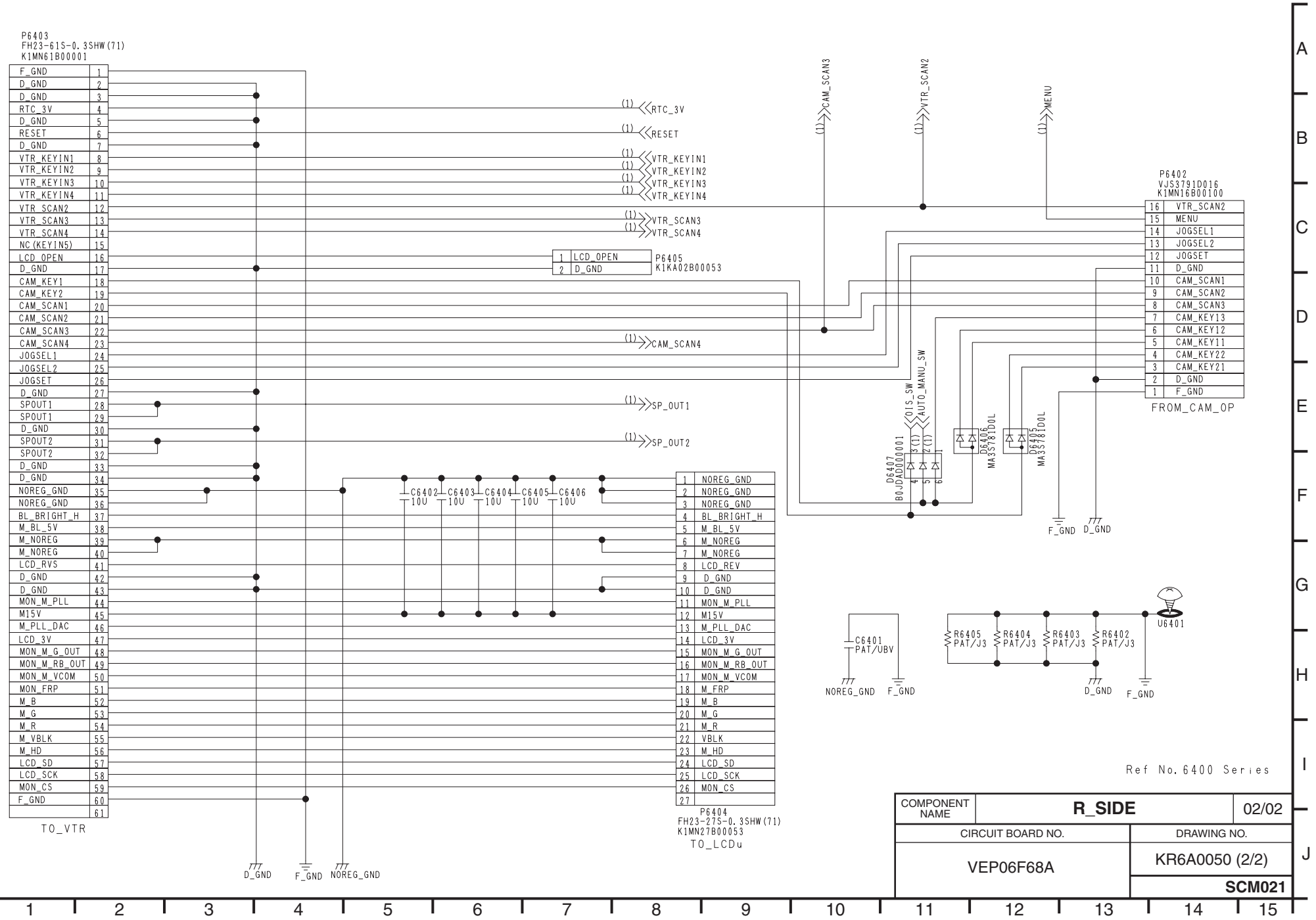
Ref No. 1000 Series.

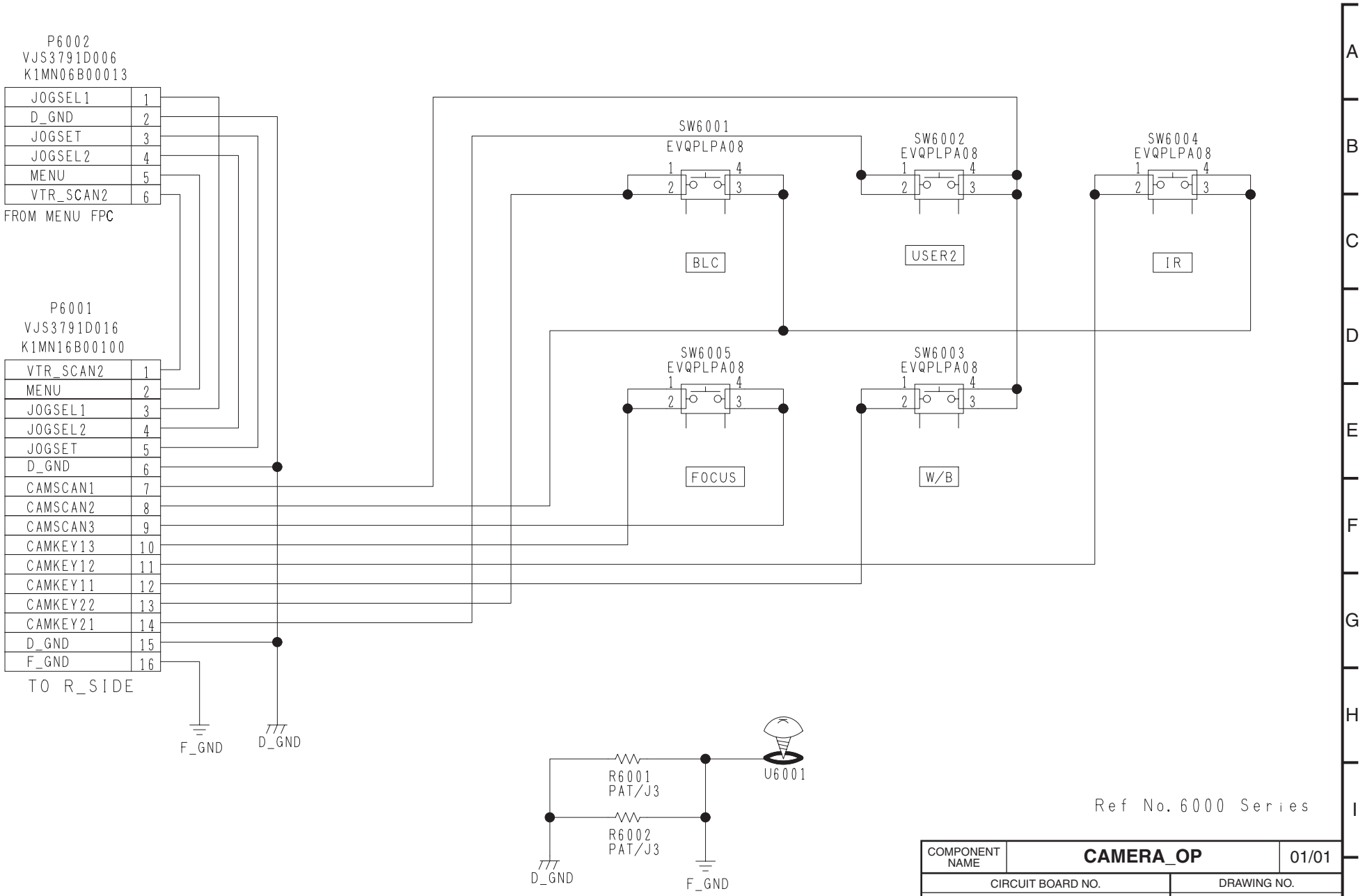
COMPONENT NAME	POWER	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01952A		KR1A0057 (2/2)
		SCM019

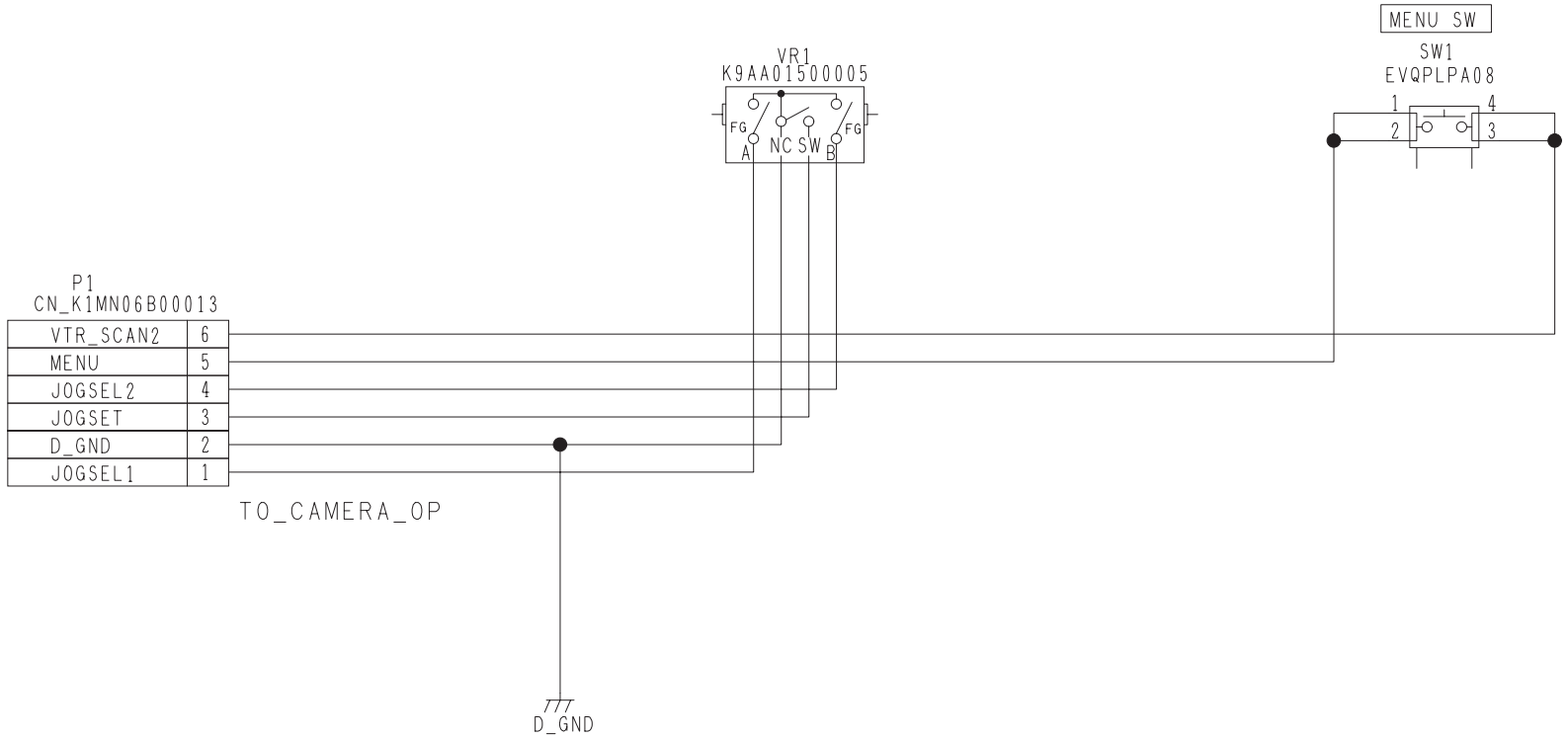
IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠警 告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。


VTR_SCAN2
MENU
VTR_SCAN3
VTR_SCAN4
M. CHK
SW6405
EVQPLPA08
ZBR
SW6403
EVQPLPA08
STLL
SW6412
K0H1BA000442
CNTR
SW6401
EVQPLPA08
C. RST
SW6402
EVQPLPA08
REC
SW6413
K0H1BA000442
SW6410
K0H1BA000442
STOP
SW6411
K0H1BA000442
PLAY
SW6407
K0H1BA000442
REW
SW6406
K0H1BA000442
FF
SW6408
K0H1BA000442
RESET
SW6409
K0H1BA000442
D6402
MA3S78100L
D6401
B0JDAD000001
D6403
B0JDAD000001
D6404
B0JDAD000001
D_GND
RESET
VTR_KEYIN4
VTR_KEYIN3
VTR_KEYIN2
VTR_KEYIN1
CAM_SCAN3
CAM_SCAN4
OIS
SW6404
EVQPLPA08
SW6414
K0D112B00055
AUTO
MANU
OIS_SW
AUTO_MANU_SW
SP_OUT1
SP_OUT2
P6401
VJP3172D002
SPEAKER
SP_OUT1
SP_OUT2
BATTERY
R6401
330/J3
B6401
VSB0407
D_GND
RTC_3V
CAD_SW
Ref No. 6400 Series
COMPONENT NAME
R_SIDE
01/02
CIRCUIT BOARD NO.
VEP06F68A
DRAWING NO.
KR6A0050 (1/2)
SCM020


P6403
FH23-61S-0.3SHW(71)
K1MN61B00001
F_GND 1
D_GND 2
D_GND 3
RTC_3V 4
D_GND 5
RESET 6
D_GND 7
VTR_KEYIN1 8
VTR_KEYIN2 9
VTR_KEYIN3 10
VTR_KEYIN4 11
VTR_SCAN2 12
VTR_SCAN3 13
VTR_SCAN4 14
NC(KEYIN5) 15
LCD_OPEN 16
D_GND 17
CAM_KEY1 18
CAM_KEY2 19
CAM_SCAN1 20
CAM_SCAN2 21
CAM_SCAN3 22
CAM_SCAN4 23
JOGSEL1 24
JOGSEL2 25
JOGSET 26
D_GND 27
SPOUT1 28
SPOUT1 29
D_GND 30
SPOUT2 31
SPOUT2 32
D_GND 33
D_GND 34
NOREG_GND 35
NOREG_GND 36
BL_BRIGHT_H 37
M_BL_5V 38
M_NOREG 39
M_NOREG 40
LCD_RVS 41
D_GND 42
D_GND 43
MON_M_PLL 44
M15V 45
M_PLL_DAC 46
LCD_3V 47
MON_M_G_OUT 48
MON_M_RB_OUT 49
MON_M_VCOM 50
MON_FRP 51
M_B 52
M_G 53
M_R 54
M_VBLK 55
M_HD 56
LCD_SD 57
LCD_SCK 58
MON_CS 59
F_GND 60
61
TO_VTR
(1) RTC_3V
(1) RESET
(1) VTR_KEYIN1
(1) VTR_KEYIN2
(1) VTR_KEYIN3
(1) VTR_KEYIN4
(1) VTR_SCAN3
(1) VTR_SCAN4
(1) CAM_SCAN4
(1) SP_OUT1
(1) SP_OUT2
1 LCD_OPEN
2 D_GND
P6405
K1KA02B00053
C6402 10U
C6403 10U
C6404 10U
C6405 10U
C6406 10U
1 NOREG_GND
2 NOREG_GND
3 NOREG_GND
4 BL_BRIGHT_H
5 M_BL_5V
6 M_NOREG
7 M_NOREG
8 LCD_REV
9 D_GND
10 D_GND
11 MON_M_PLL
12 M15V
13 M_PLL_DAC
14 LCD_3V
15 MON_M_G_OUT
16 MON_M_RB_OUT
17 MON_M_VCOM
18 M_FRP
19 M_B
20 M_G
21 M_R
22 VBLK
23 M_HD
24 LCD_SD
25 LCD_SCK
26 MON_CS
27
P6404
FH23-27S-0.3SHW(71)
K1MN27B00053
TO_LCDu
D_GND
F_GND
NOREG_GND
(1) CAM_SCAN3
(1) VTR_SCAN2
(1) MENU
P6402
VJS3791D016
K1MN16B00100
16 VTR_SCAN2
15 MENU
14 JOGSEL1
13 JOGSEL2
12 JOGSET
11 D_GND
10 CAM_SCAN1
9 CAM_SCAN2
8 CAM_SCAN3
7 CAM_KEY13
6 CAM_KEY12
5 CAM_KEY11
4 CAM_KEY22
3 CAM_KEY21
2 D_GND
1 F_GND
FROM_CAM_OP
D6407
B0JDAD000001
OIS_SW
AUTO_MANU_SW
D6406
MA3S781D0L
D6405
MA3S781D0L
F_GND
D_GND
C6401
PAT/UBV
NOREG_GND
F_GND
R6405
PAT/J3
R6404
PAT/J3
R6403
PAT/J3
R6402
PAT/J3
U6401
D_GND
F_GND
Ref No.6400 Series
COMPONENT NAME
R_SIDE
02/02
CIRCUIT BOARD NO.
VEP06F68A
DRAWING NO.
KR6A0050 (2/2)
SCM021


P6002
VJS3791D006
K1MN06B00013
JOGSEL1 1
D_GND 2
JOGSET 3
JOGSEL2 4
MENU 5
VTR_SCAN2 6
FROM MENU FPC
P6001
VJS3791D016
K1MN16B00100
VTR_SCAN2 1
MENU 2
JOGSEL1 3
JOGSEL2 4
JOGSET 5
D_GND 6
CAMSCAN1 7
CAMSCAN2 8
CAMSCAN3 9
CAMKEY13 10
CAMKEY12 11
CAMKEY11 12
CAMKEY22 13
CAMKEY21 14
D_GND 15
F_GND 16
TO R_SIDE
F_GND
D_GND
SW6001
EVQPLPA08
BLC
SW6002
EVQPLPA08
USER2
SW6004
EVQPLPA08
IR
SW6005
EVQPLPA08
FOCUS
SW6003
EVQPLPA08
W/B
R6001
PAT/J3
R6002
PAT/J3
D_GND
F_GND
U6001
Ref No. 6000 Series
COMPONENT NAME
CAMERA_OP
01/01
CIRCUIT BOARD NO.
VEP06F64A
DRAWING NO.
KR6A0046 (1/1)
SCM022

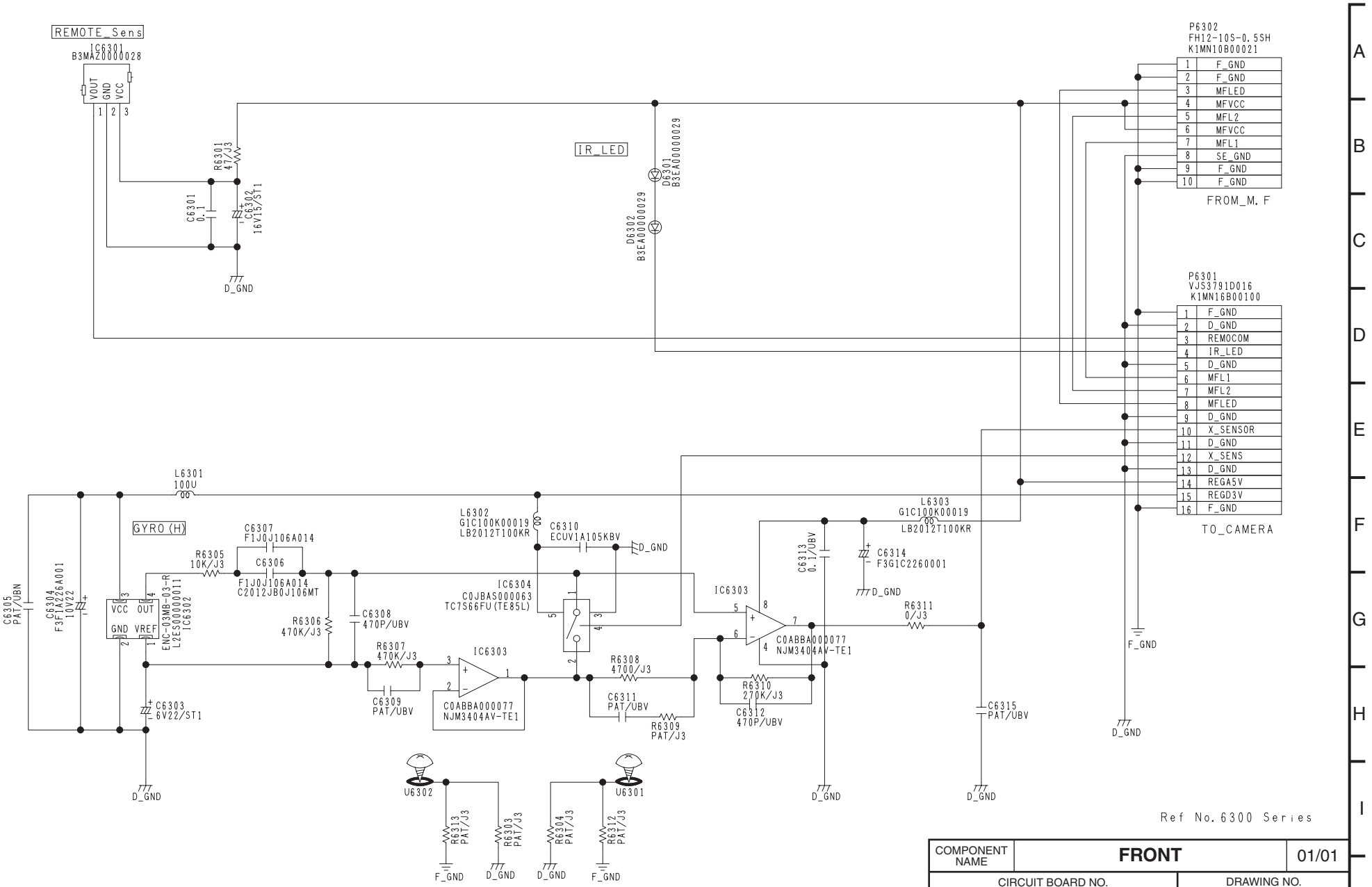


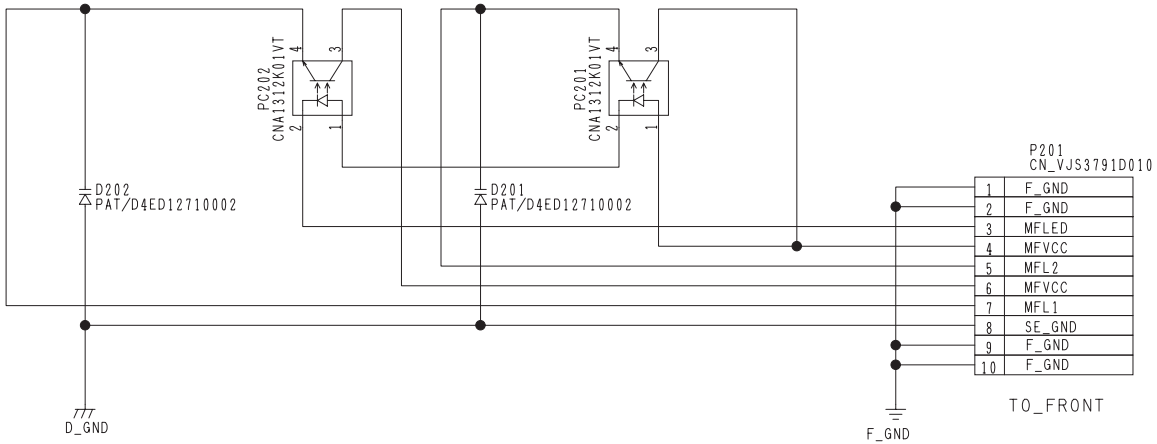
Ref No. 000 Series

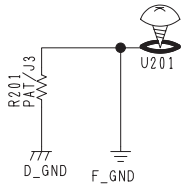
COMPONENT NAME	**MENU FPC**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001G2A		KR0A0148 (1/1)
		SCM023

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


REMOTE_Sens
IC6301
B3MAZ0000028
VOUT
GND
VCC
R6301
47/J3
C6301
0.1
C6302
16V15/ST1
D_GND
IR_LED
D6301
B3EA00000029
D6302
B3EA00000029
P6302
FH12-10S-0.5SH
K1MN10B00021
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
FROM_M.F
P6301
VJS3791D016
K1MN16B00100
1 F_GND
2 D_GND
3 REMOCOM
4 IR_LED
5 D_GND
6 MFL1
7 MFL2
8 MFLED
9 D_GND
10 X_SENSOR
11 D_GND
12 X_SENS
13 D_GND
14 REGA5V
15 REGD3V
16 F_GND
TO_CAMERA
L6301
100U
GYRO(H)
C6307
F1J0J106A014
R6305
10K/J3
C6306
F1J0J106A014
C2012JB0J106MT
L6302
G1C100K00019
LB2012T100KR
C6310
ECUV1A105KBV
D_GND
L6303
G1C100K00019
LB2012T100KR
C6313
0.1/UBV
C6314
F3G1C2260001
D_GND
C6305
PAT/UBN
C6304
F3F1A226A001
10V22
IC6302
ENC-03MB-03-R
L2ES000000011
VCC OUT
GND VREF
IC6304
C0JBAS000063
TC7S66FU(TE85L)
IC6303
C0ABBA000077
NJM3404AV-TE1
R6311
0/J3
R6306
470K/J3
C6308
470P/UBV
R6307
470K/J3
C6309
PAT/UBV
R6308
470Q/J3
C6311
PAT/UBV
R6309
PAT/J3
R6310
270K/J3
C6312
470P/UBV
C6315
PAT/UBV
C6303
6V22/ST1
F_GND
D_GND
U6302
U6301
R6313
PAT/J3
R6303
PAT/J3
R6304
PAT/J3
R6312
PAT/J3
Ref No.6300 Series
COMPONENT NAME
FRONT
01/01
CIRCUIT BOARD NO.
VEP06F67A
DRAWING NO.
KR6A0049 (1/1)
SCM024
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



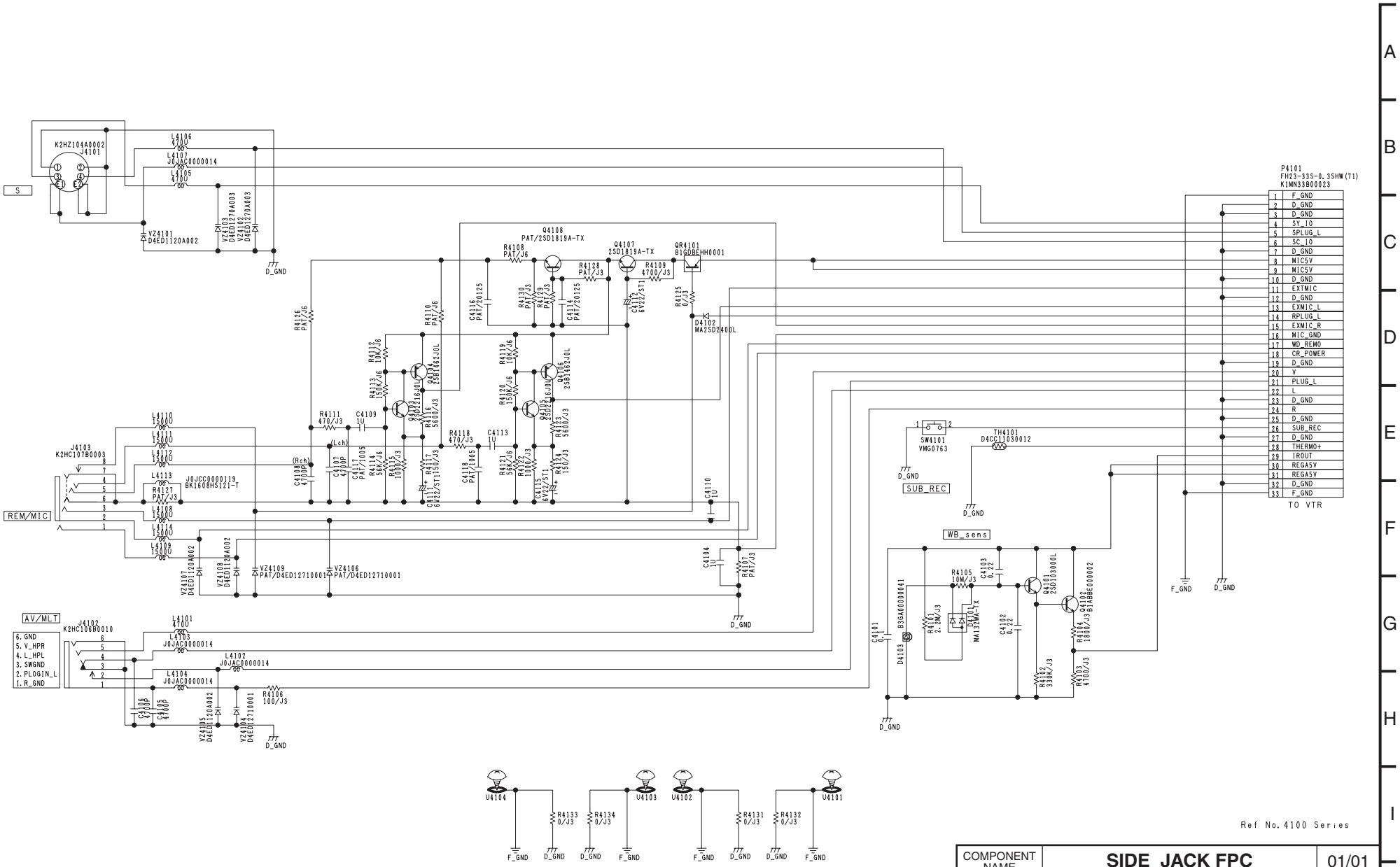


Ref No. 200 Series

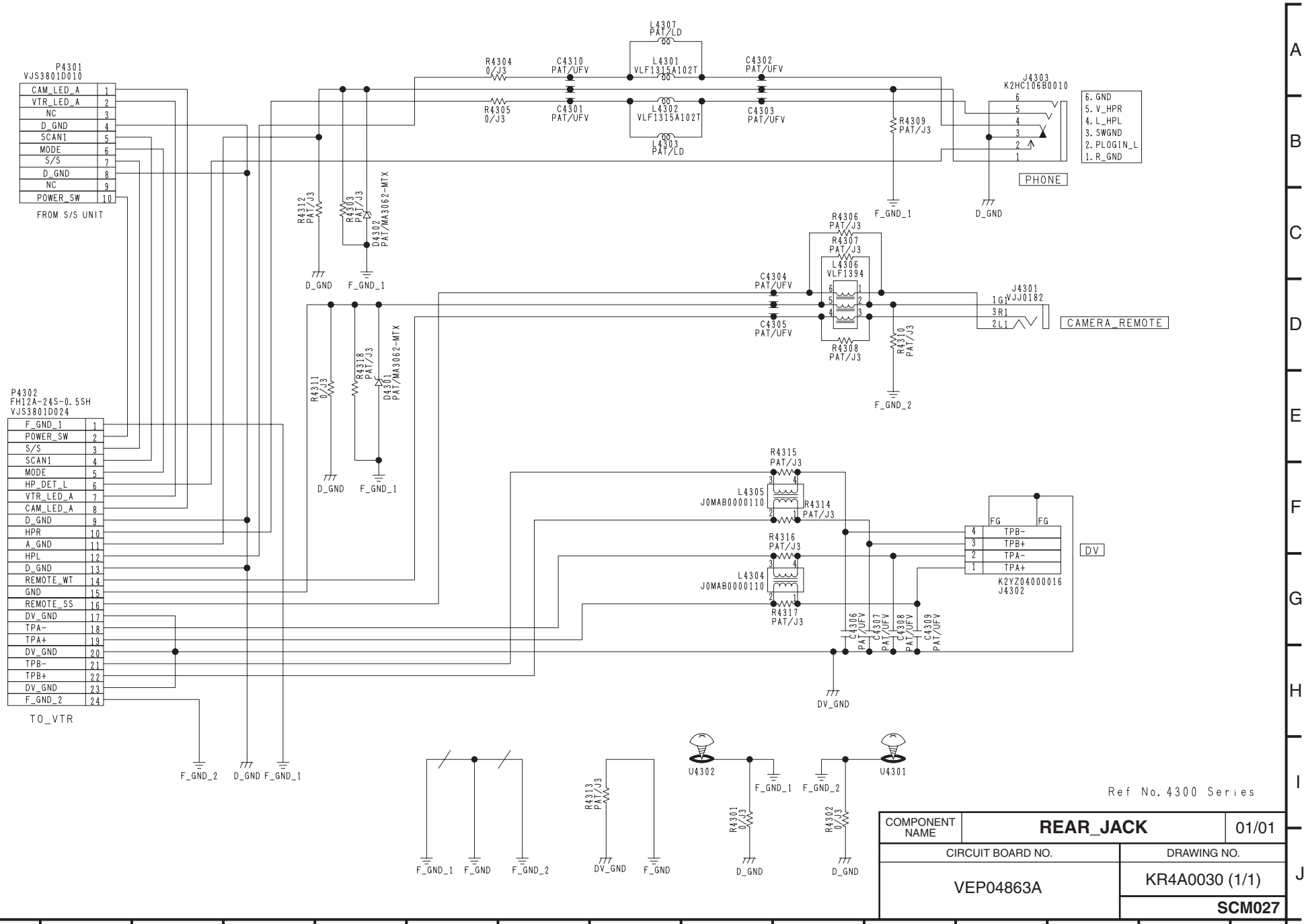
COMPONENT NAME	MF FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001E2A		KR0A0072 (1/1)
		SCM025

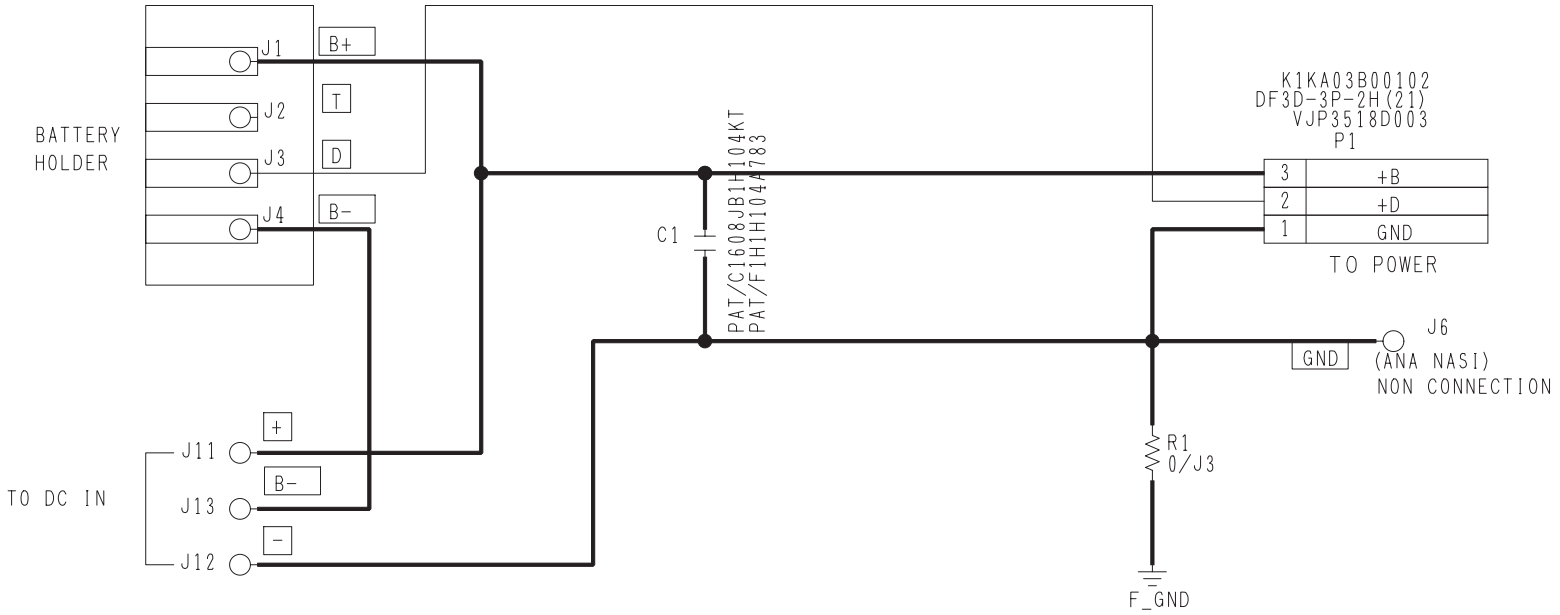
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



COMPONENT NAME	**SIDE_JACK FPC**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04861A		KR4A0028 (1/1)
		SCM026


P4301
VJS3801D010
CAM_LED_A 1
VTR_LED_A 2
NC 3
D_GND 4
SCAN1 5
MODE 6
S/S 7
D_GND 8
NC 9
POWER_SW 10
FROM S/S UNIT
L4307 PAT/LD
L4301 VLF1315A102T
L4302 VLF1315A102T
L4303 PAT/LD
R4304 0/J3
R4305 0/J3
C4310 PAT/UFV
C4301 PAT/UFV
C4302 PAT/UFV
C4303 PAT/UFV
R4309 PAT/J3
J4303
K2HC106B0010
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
PHONE
F_GND_1
D_GND
R4312 PAT/J3
R4313 PAT/J3
D4302 PAT/MA3062-MTX
R4306 PAT/J3
R4307 PAT/J3
L4306 VLF1394
C4304 PAT/UFV
C4305 PAT/UFV
R4308 PAT/J3
R4310 PAT/J3
J4301
VJJ0182
1G1
3R1
2L1
CAMERA_REMOTE
F_GND_2
P4302
FH12A-24S-0.5SH
VJS3801D024
F_GND_1 1
POWER_SW 2
S/S 3
SCAN1 4
MODE 5
HP_DET_L 6
VTR_LED_A 7
CAM_LED_A 8
D_GND 9
HPR 10
A_GND 11
HPL 12
D_GND 13
REMOTE_WT 14
GND 15
REMOTE_SS 16
DV_GND 17
TPA- 18
TPA+ 19
DV_GND 20
TPB- 21
TPB+ 22
DV_GND 23
F_GND_2 24
TO_VTR
R4311 0/J3
R4318 PAT/J3
D4301 PAT/MA3062-MTX
R4315 PAT/J3
L4305 J0MAB0000110
R4314 PAT/J3
R4316 PAT/J3
L4304 J0MAB0000110
R4317 PAT/J3
C4306 PAT/UFV
C4307 PAT/UFV
C4308 PAT/UFV
C4309 PAT/UFV
FG
FG
4 TPB-
3 TPB+
2 TPA-
1 TPA+
DV
K2YZ04000016
J4302
DV_GND
F_GND_2
D_GND
F_GND_1
F_GND_1
F_GND
F_GND_2
R4313 PAT/J3
DV_GND
F_GND
U4302
F_GND_1
R4301 0/J3
D_GND
F_GND_2
U4301
R4302 0/J3
D_GND
Ref No. 4300 Series
COMPONENT NAME
REAR_JACK
01/01
CIRCUIT BOARD NO.
VEP04863A
DRAWING NO.
KR4A0030 (1/1)
SCM027

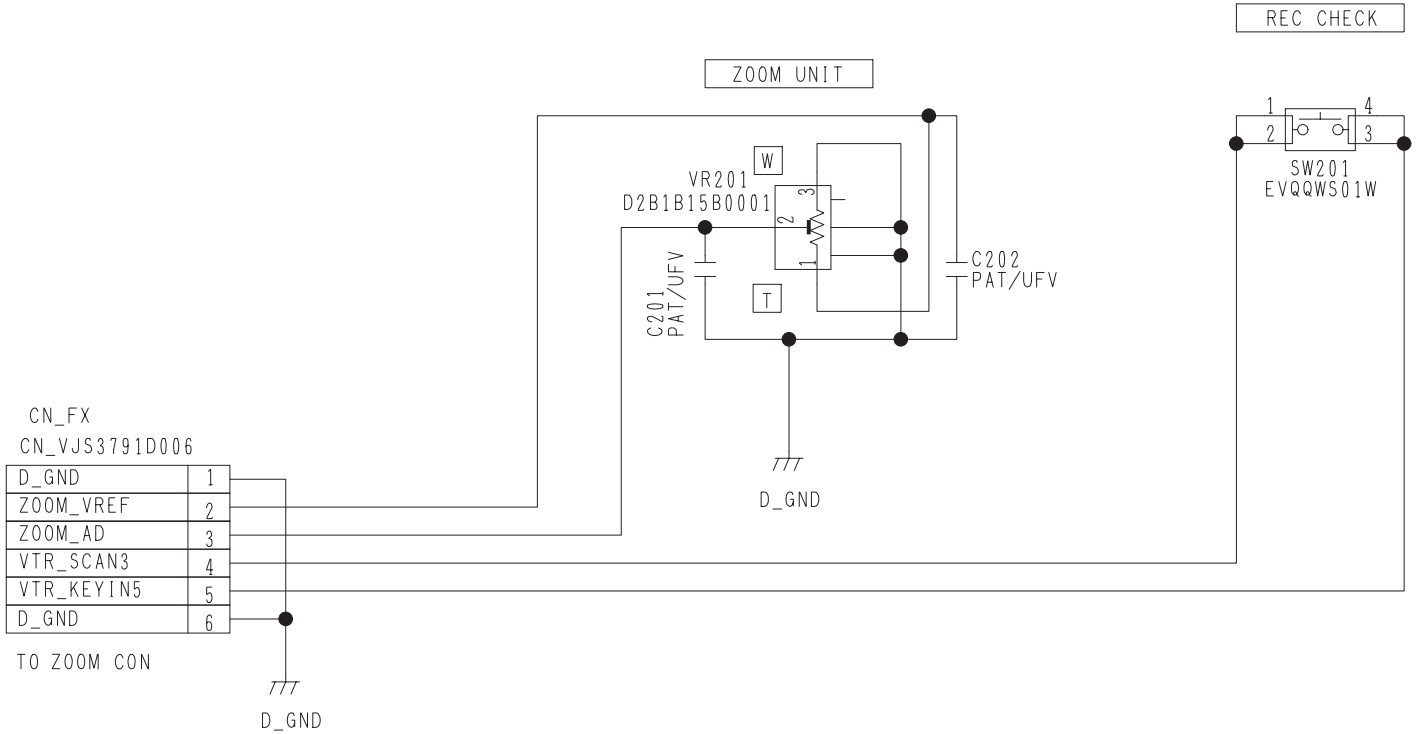


PAT=PATTERN ONLY
Ref No. Series.

COMPONENT NAME	BATTERY	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01953A		KR1A0047 (1/1)
		SCM028

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

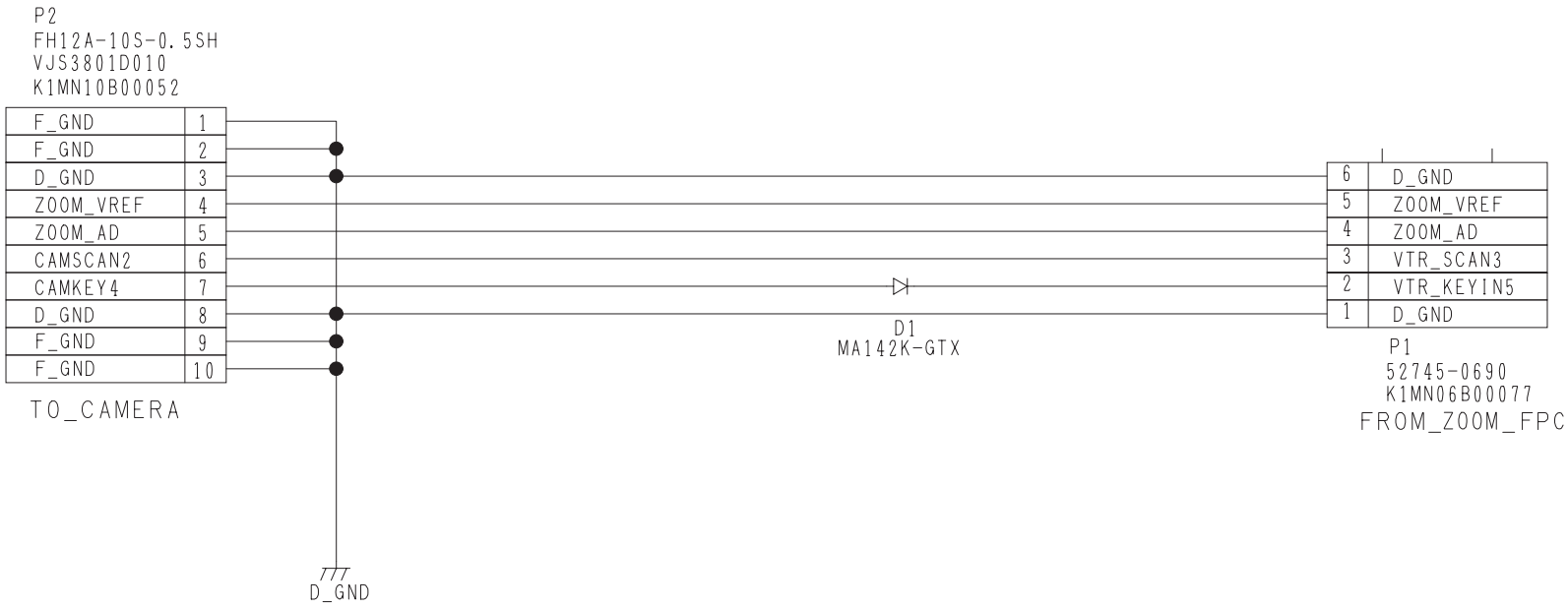


Ref No. 201-250 Series.

COMPONENT NAME	ZOOM FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F66A		KR6A0090 (1/1)
		SCM029

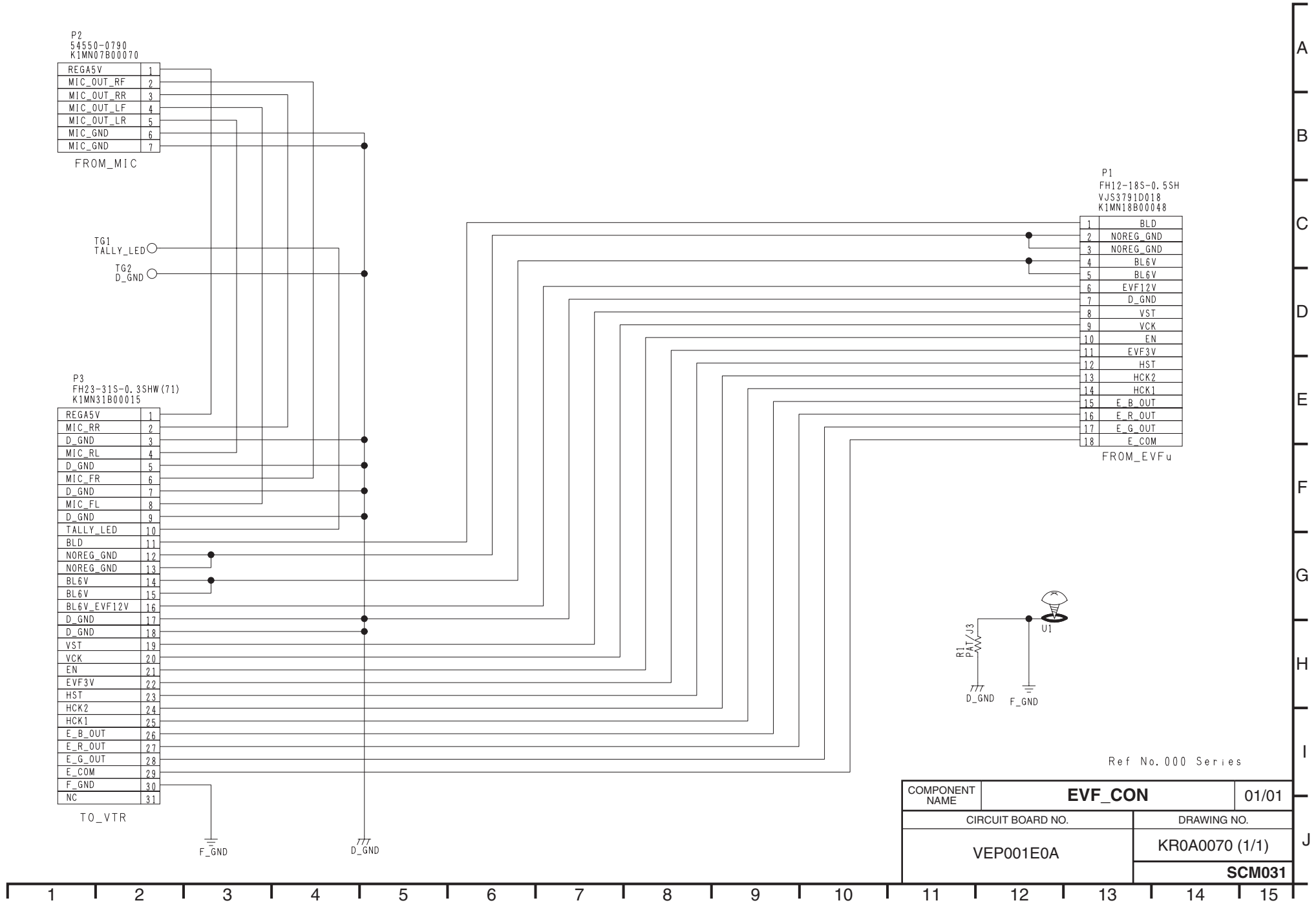
A B C D E F G H I J

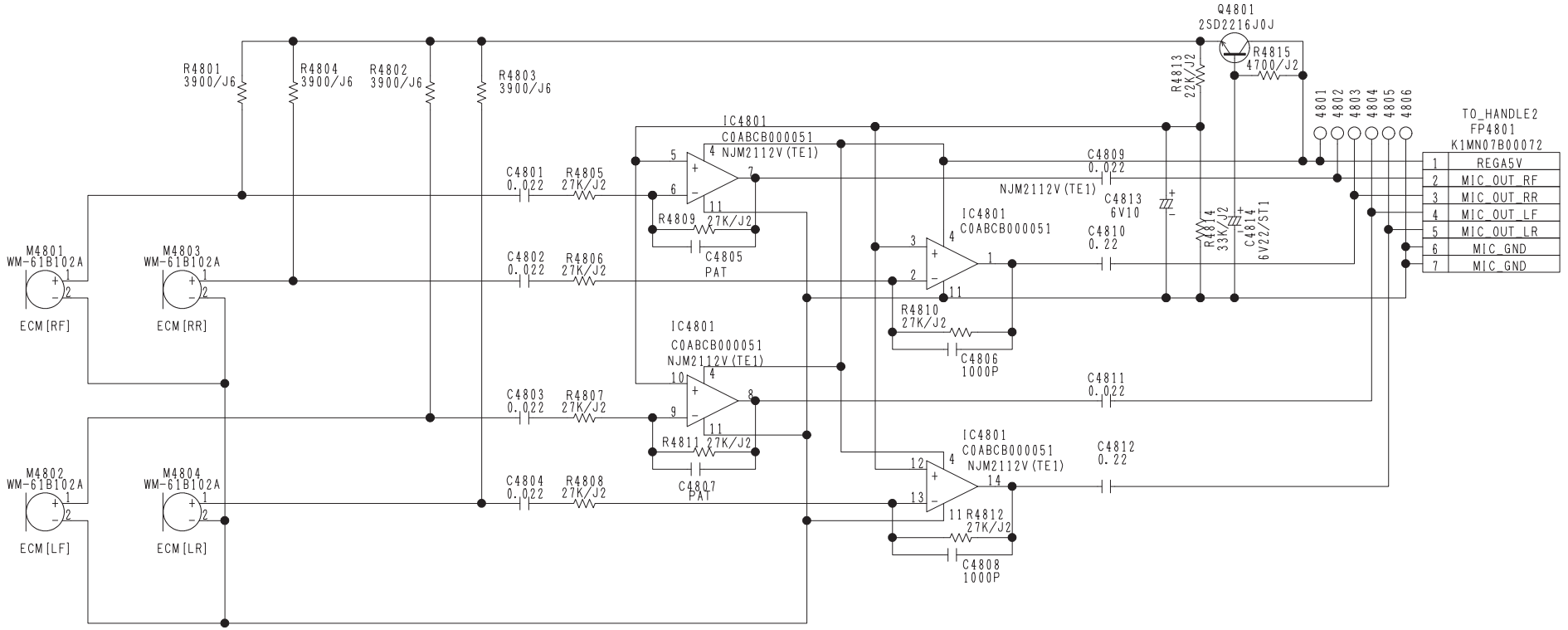
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



Ref No. 000 Series

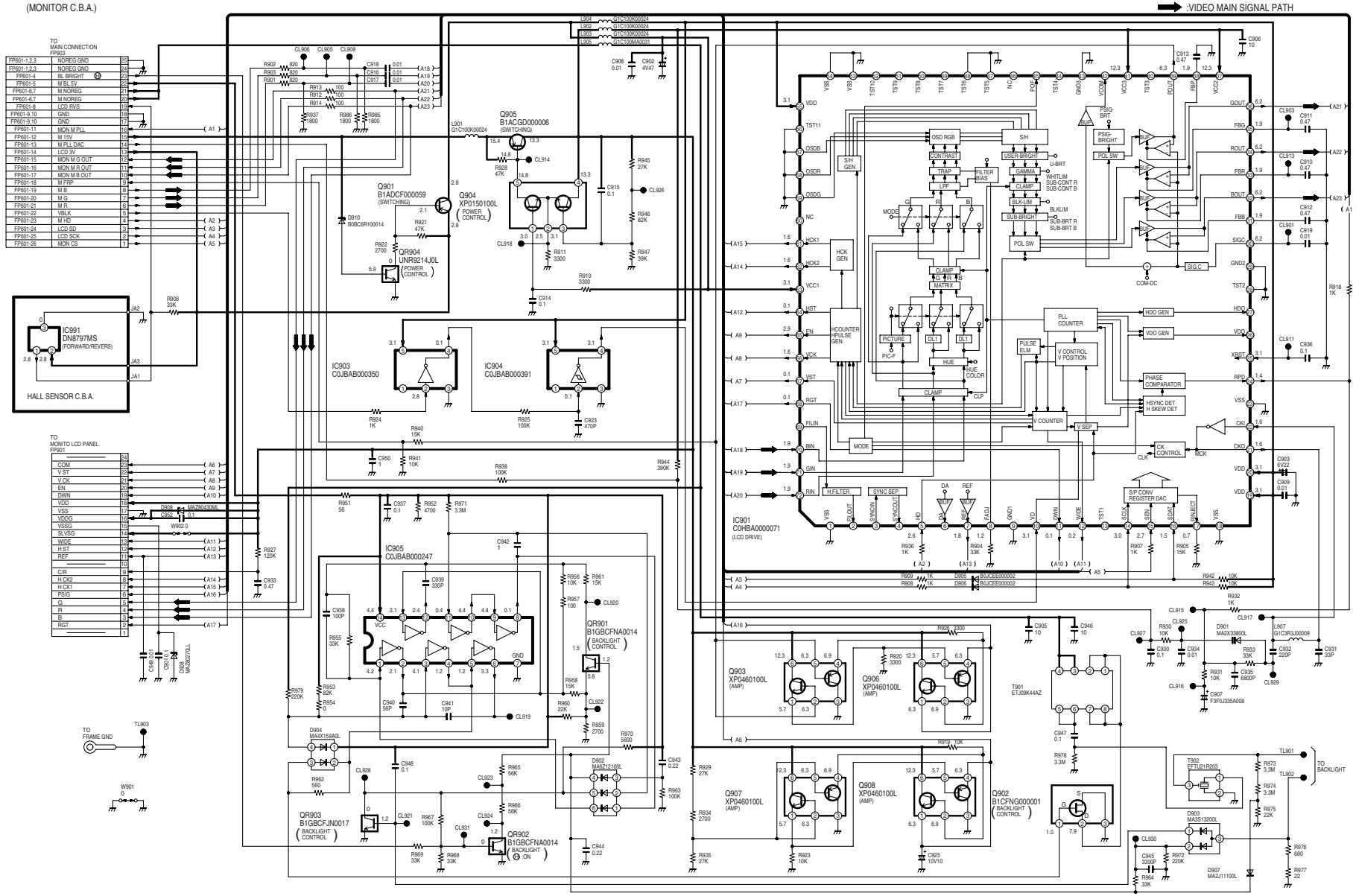
COMPONENT NAME	ZOOM_CON	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001E3A		KR0A0114 (1/1)
		SCM030


P2
54550-0790
K1MN07B00070
REGA5V 1
MIC_OUT_RF 2
MIC_OUT_RR 3
MIC_OUT_LF 4
MIC_OUT_LR 5
MIC_GND 6
MIC_GND 7
FROM_MIC
TG1
TALLY_LED
TG2
D_GND
P3
FH23-31S-0.3SHW(71)
K1MN31B00015
REGA5V 1
MIC_RR 2
D_GND 3
MIC_RL 4
D_GND 5
MIC_FR 6
D_GND 7
MIC_FL 8
D_GND 9
TALLY_LED 10
BLD 11
NOREG_GND 12
NOREG_GND 13
BL6V 14
BL6V 15
BL6V_EVF12V 16
D_GND 17
D_GND 18
VST 19
VCK 20
EN 21
EVF3V 22
HST 23
HCK2 24
HCK1 25
E_B_OUT 26
E_R_OUT 27
E_G_OUT 28
E_COM 29
F_GND 30
NC 31
TO_VTR
F_GND
D_GND
P1
FH12-18S-0.5SH
VJS3791D018
K1MN18B00048
1 BLD
2 NOREG_GND
3 NOREG_GND
4 BL6V
5 BL6V
6 EVF12V
7 D_GND
8 VST
9 VCK
10 EN
11 EVF3V
12 HST
13 HCK2
14 HCK1
15 E_B_OUT
16 E_R_OUT
17 E_G_OUT
18 E_COM
FROM_EVFu
U1
R1
PAT/J3
D_GND
F_GND
Ref No. 000 Series
COMPONENT NAME
EVF_CON
01/01
CIRCUIT BOARD NO.
VEP001E0A
DRAWING NO.
KR0A0070 (1/1)
SCM031
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

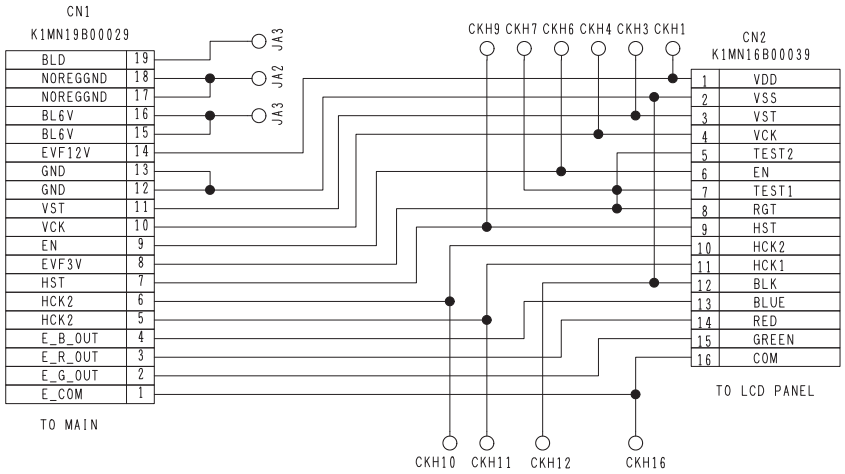


Ref No. 4800 Series.

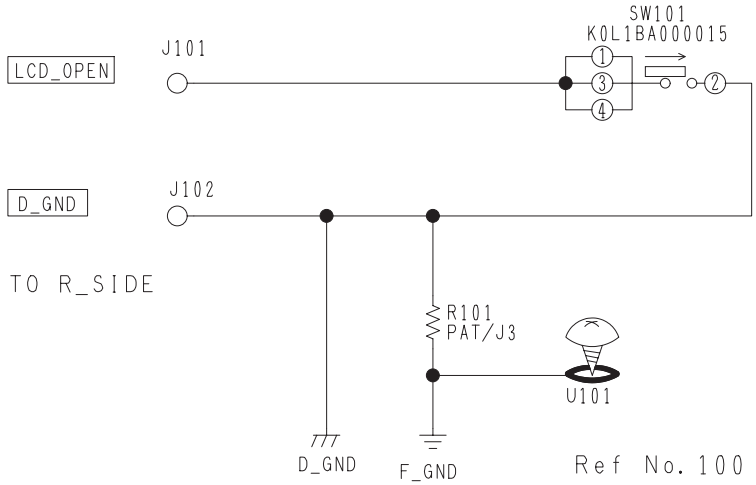
COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04828A		KR4L33 (1/1)
		SCM032



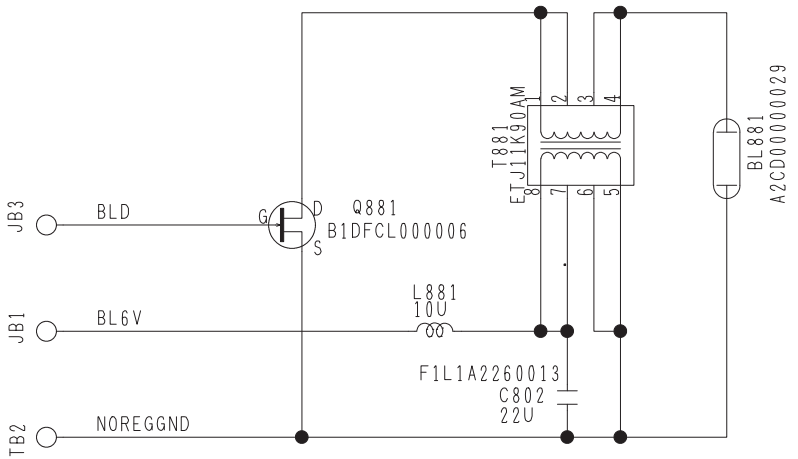
COMPONENT NAME	**MONITOR**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP26257B		(1/1)
		SCM033



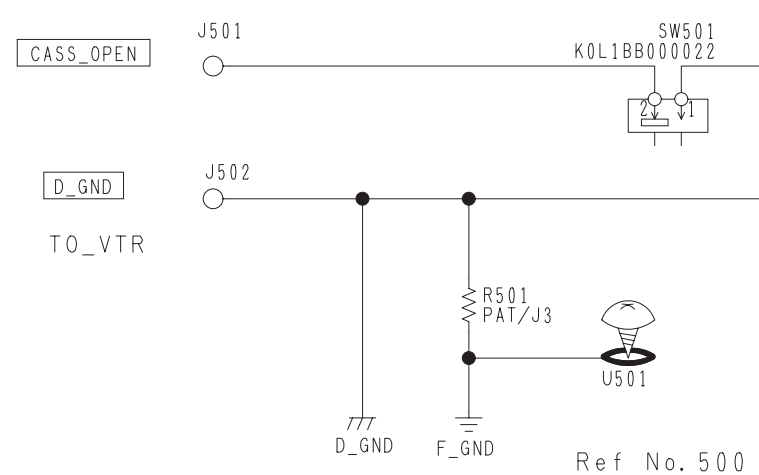
COMPONENT NAME	EVF_A	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28272B	KR8840 (1/1)	
	SCM034	



COMPONENT NAME	LCD_OPEN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E1A	KR0A0071 (1/1)	
	SCM034	



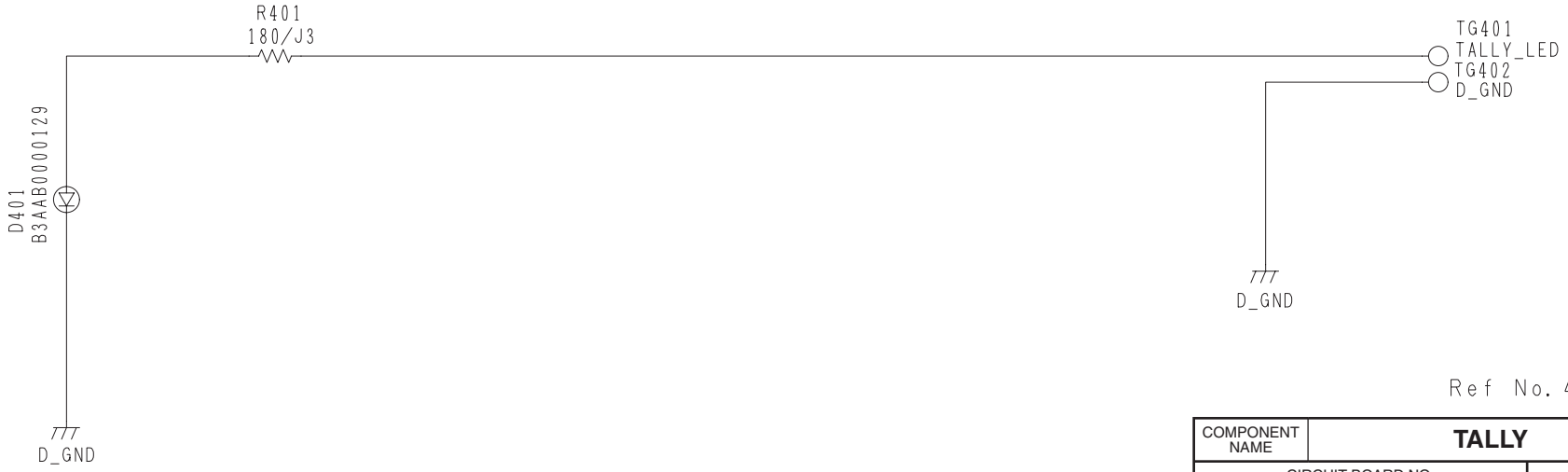
COMPONENT NAME	EVF_B	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28275B	KR8841 (1/1)	
	SCM034	



COMPONENT NAME	CAS_OPEN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E5A	KR0A0075 (1/1)	
	SCM034	

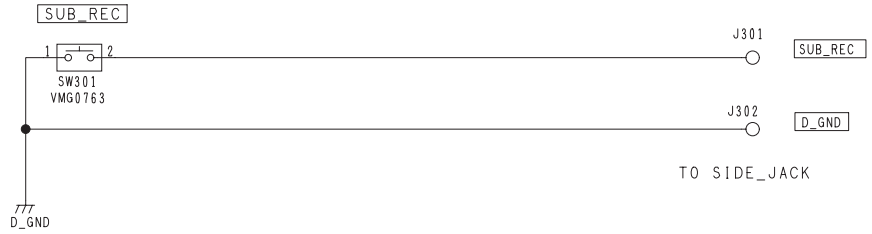
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



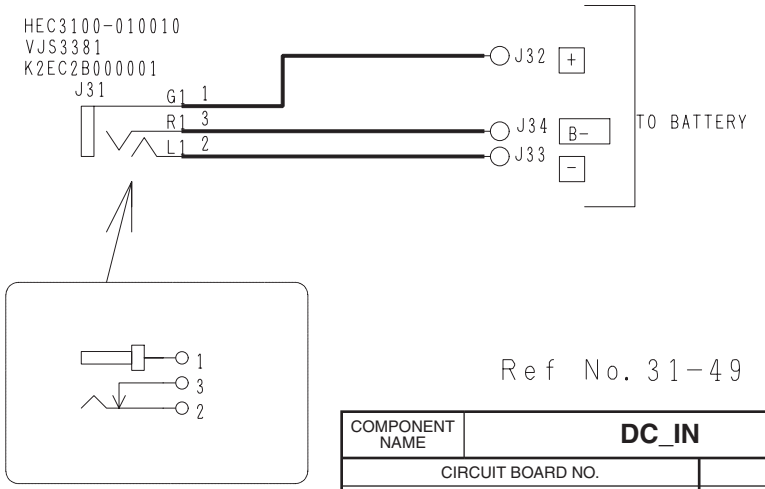
Ref No. 400 Series

COMPONENT NAME	TALLY	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E4A	KR0A0074 (1/1)	
	SCM035	



Ref No. 301 Series

COMPONENT NAME	SUB_REC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G1A	KR0A0147 (1/1)	
	SCM035	

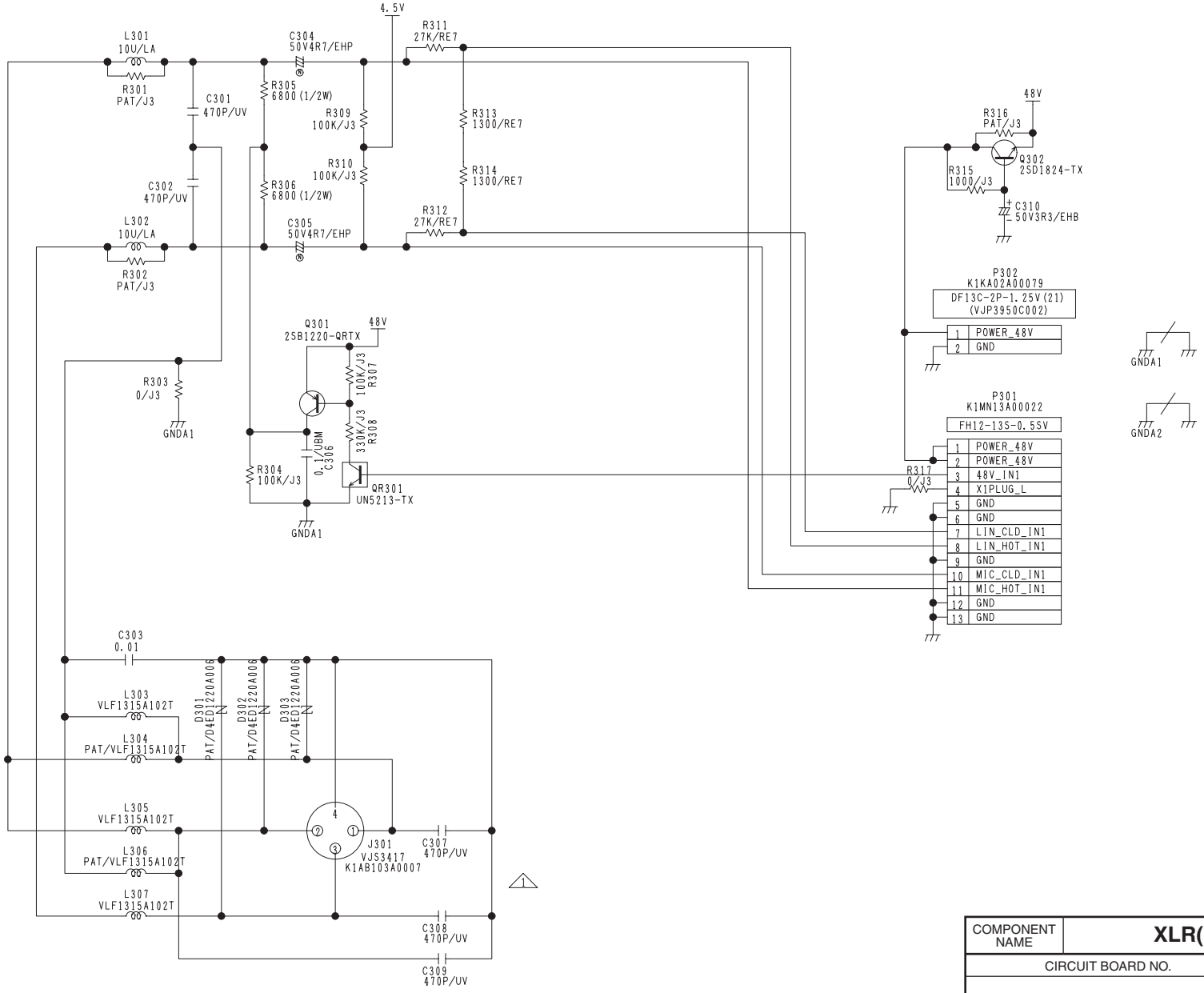


Ref No. 31-49 Series

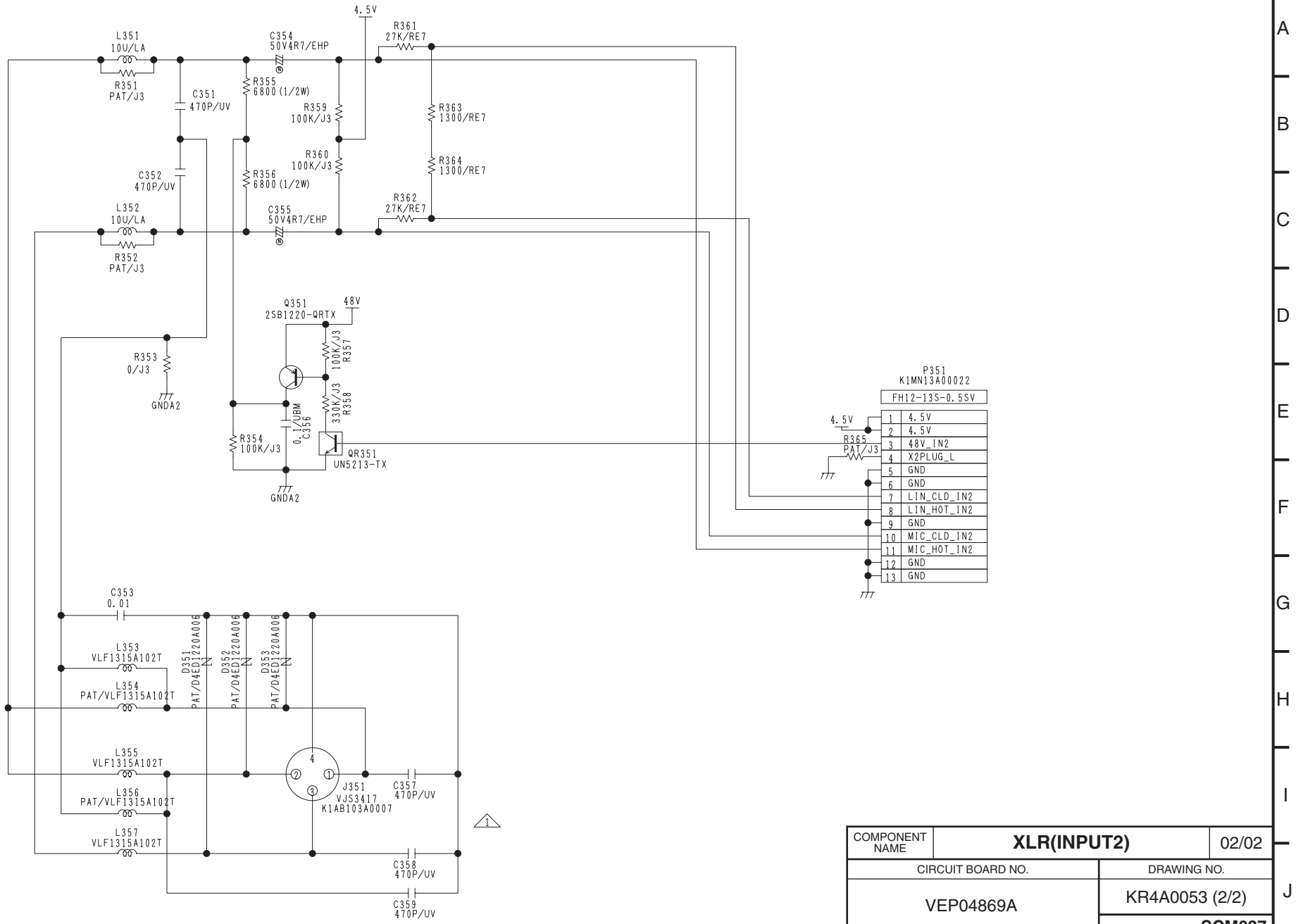
COMPONENT NAME	DC_IN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01957A	KR1A0062 (1/1)	
	SCM035	

A B C D E F G H I J

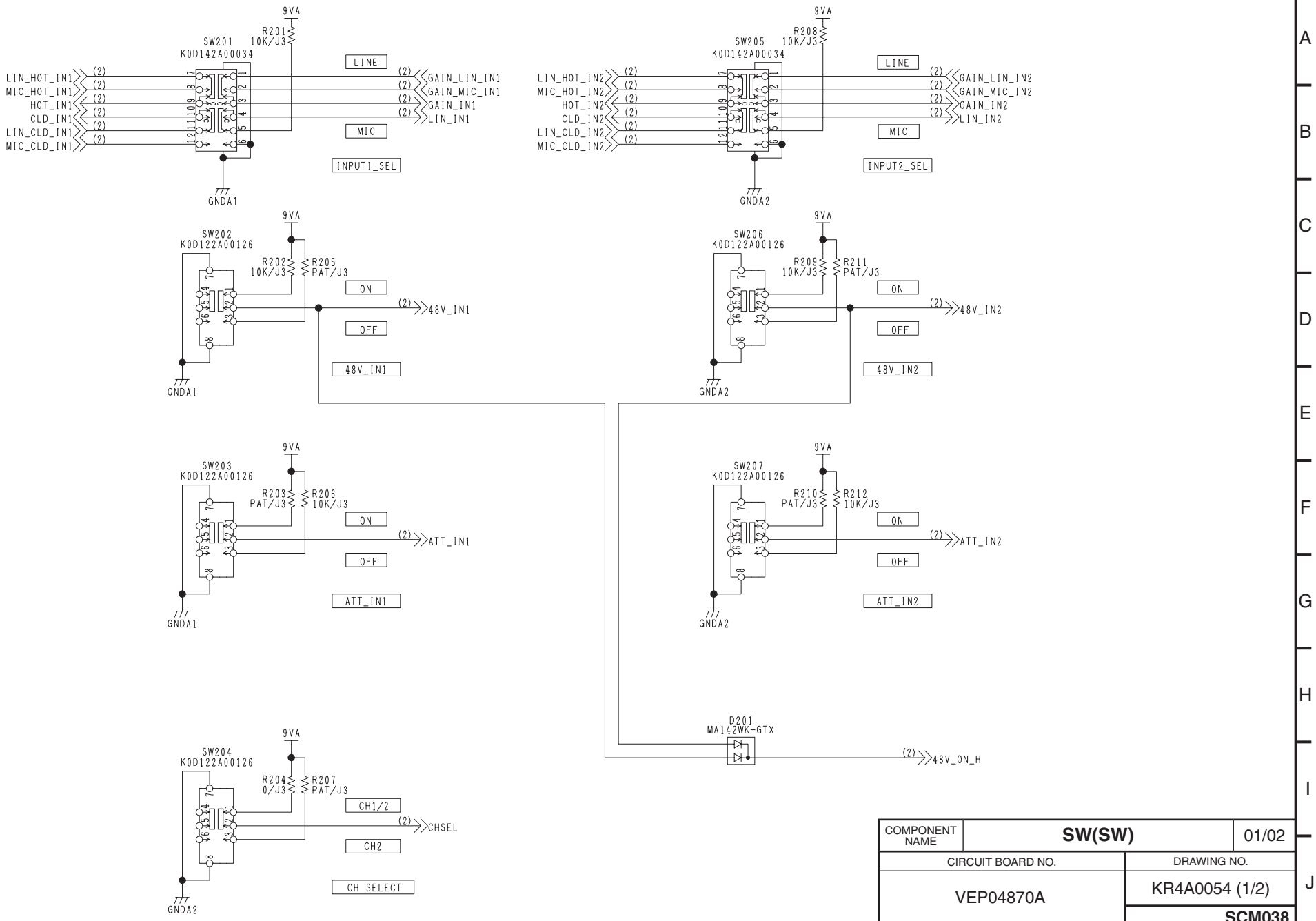
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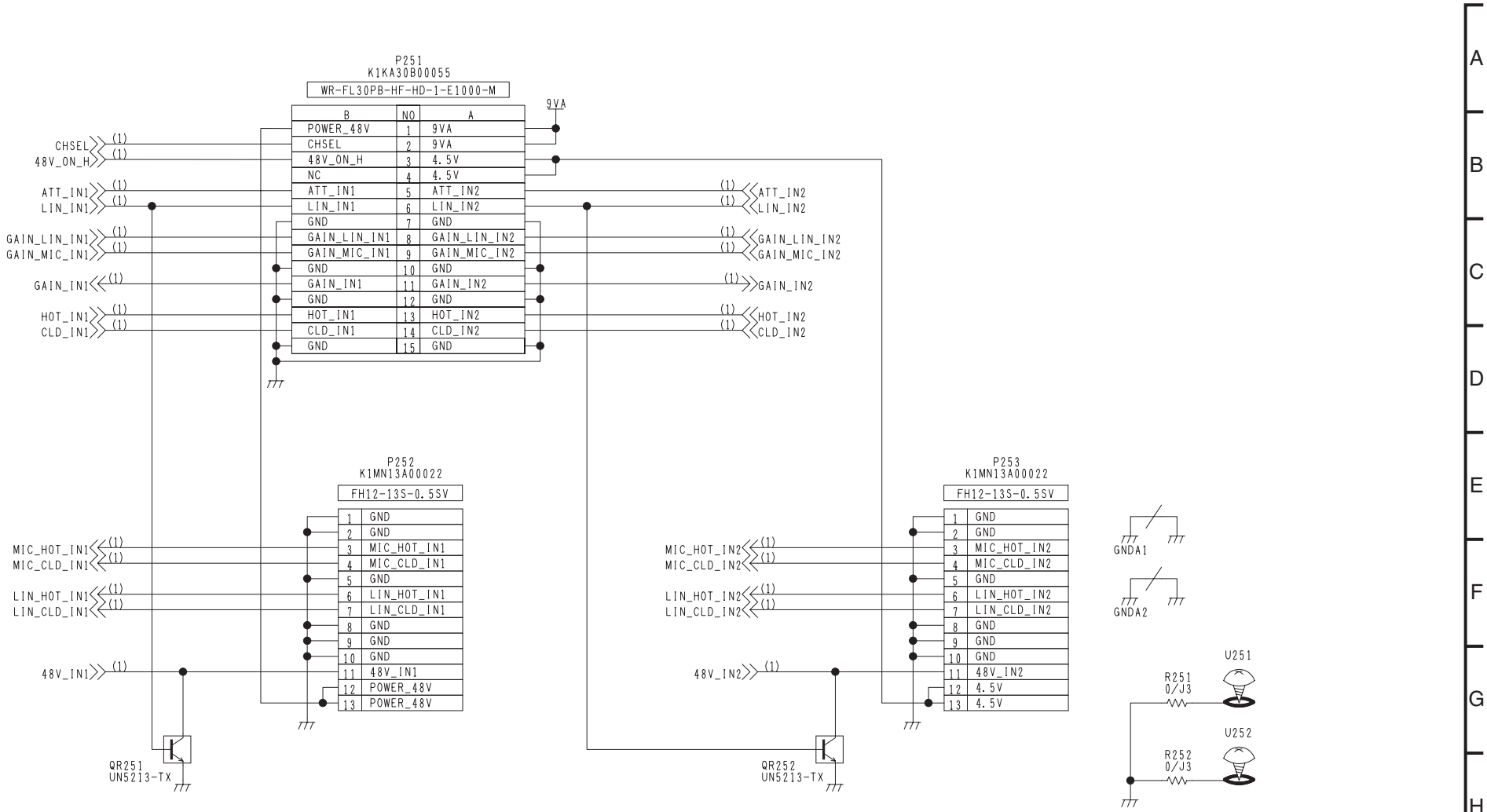


COMPONENT NAME	**XLR(INPUT1)**	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04869A		KR4A0053 (1/2)
		SCM036

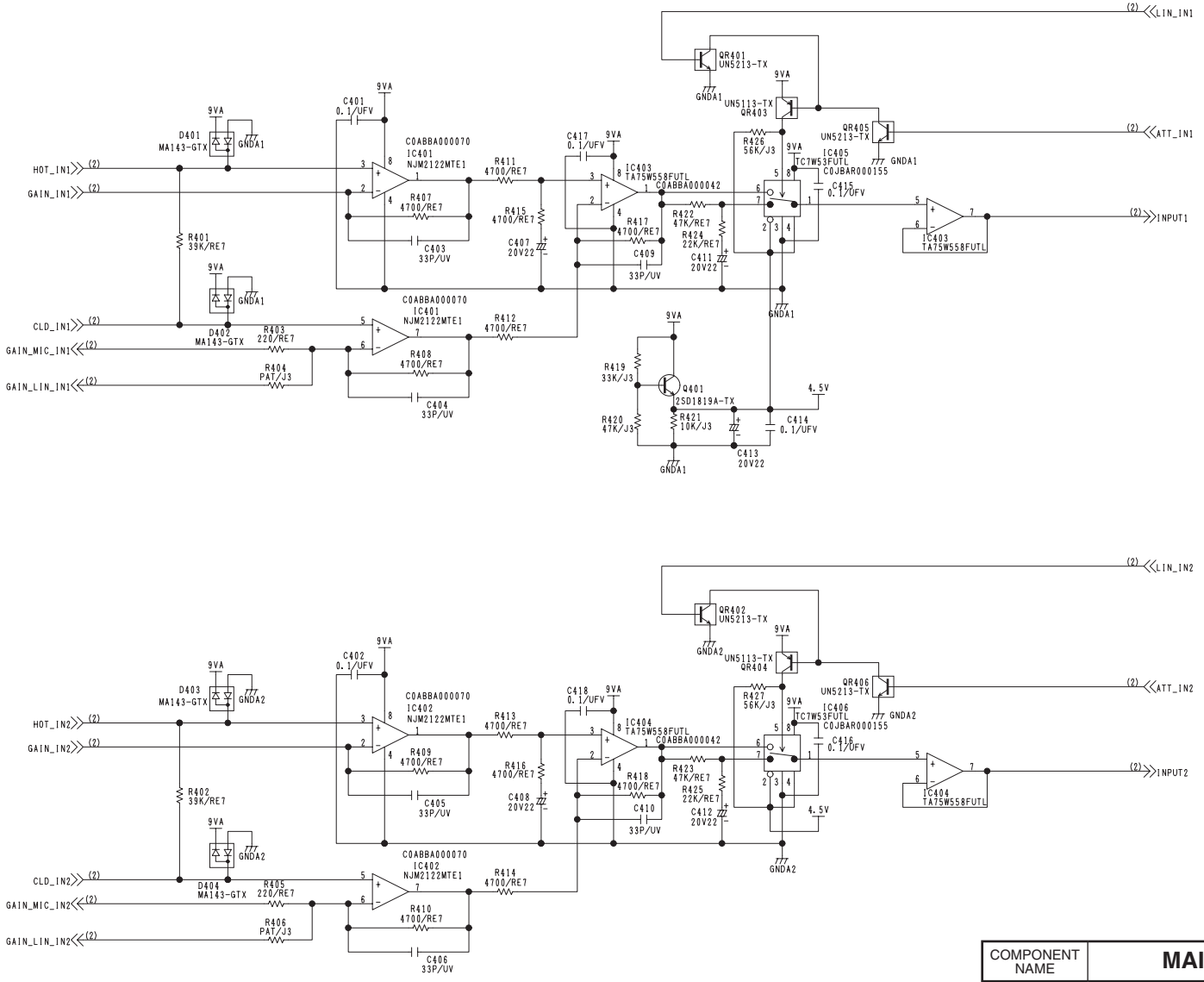


COMPONENT NAME	XLR(INPUT2)	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04869A		KR4A0053 (2/2)
		SCM037

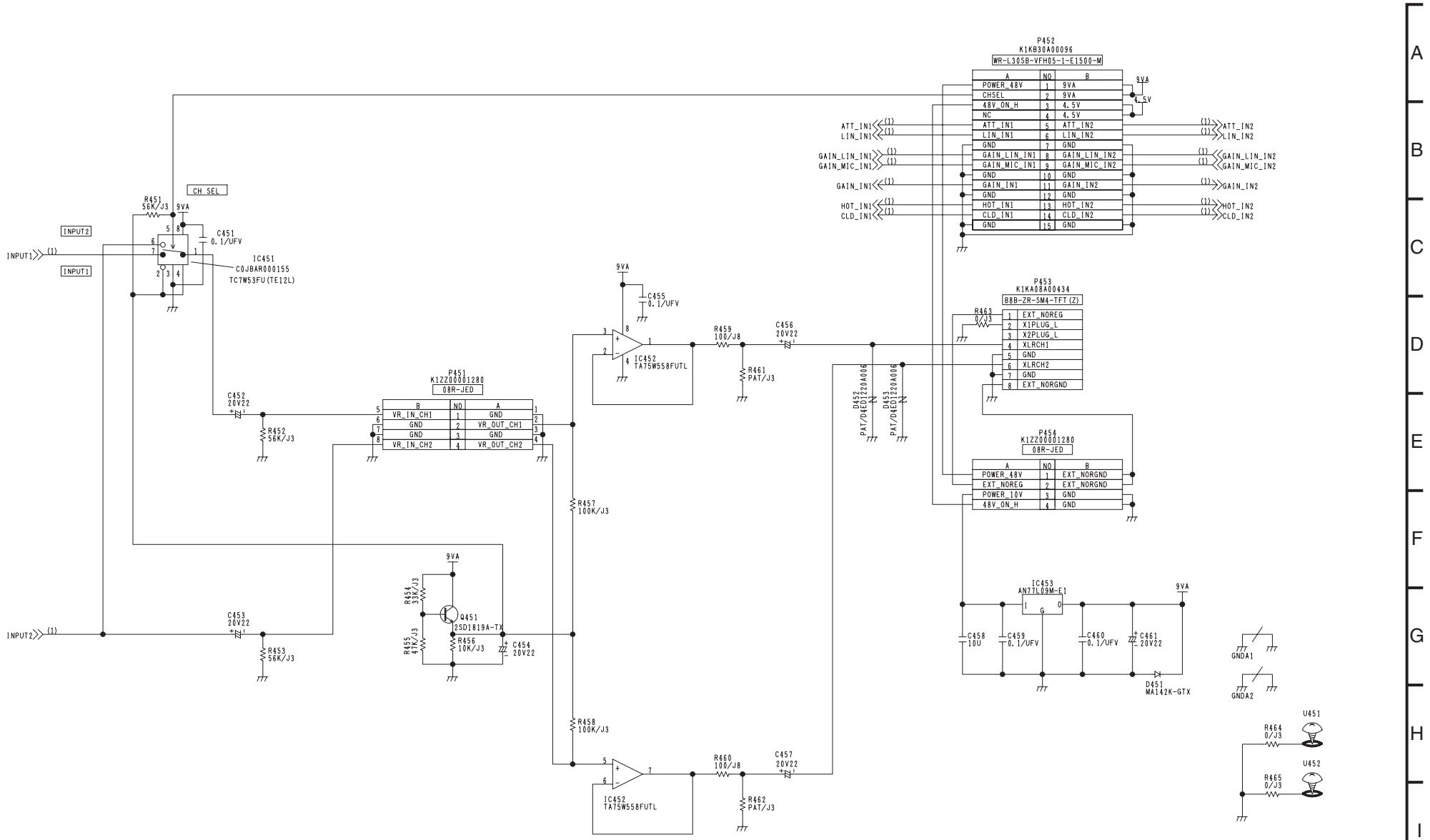

9VA
R201 10K/J3
SW201 K0D142A00034
LIN_HOT_IN1
MIC_HOT_IN1
HOT_IN1
CLD_IN1
LIN_CLD_IN1
MIC_CLD_IN1
LINE
MIC
INPUT1_SEL
GAIN_LIN_IN1
GAIN_MIC_IN1
GAIN_IN1
LIN_IN1
GNDA1
R208 10K/J3
SW205 K0D142A00034
LIN_HOT_IN2
MIC_HOT_IN2
HOT_IN2
CLD_IN2
LIN_CLD_IN2
MIC_CLD_IN2
INPUT2_SEL
GAIN_LIN_IN2
GAIN_MIC_IN2
GAIN_IN2
LIN_IN2
GNDA2
SW202 K0D122A00126
R202 10K/J3
R205 PAT/J3
ON
OFF
48V_IN1
SW206 K0D122A00126
R209 10K/J3
R211 PAT/J3
48V_IN2
SW203 K0D122A00126
R203 PAT/J3
R206 10K/J3
ATT_IN1
SW207 K0D122A00126
R210 PAT/J3
R212 10K/J3
ATT_IN2
SW204 K0D122A00126
R204 0/J3
R207 PAT/J3
CH1/2
CH2
CH SELECT
CHSEL
D201 MA142WK-GTX
48V_ON_H
COMPONENT NAME
SW(SW)
01/02
CIRCUIT BOARD NO.
VEP04870A
DRAWING NO.
KR4A0054 (1/2)
SCM038



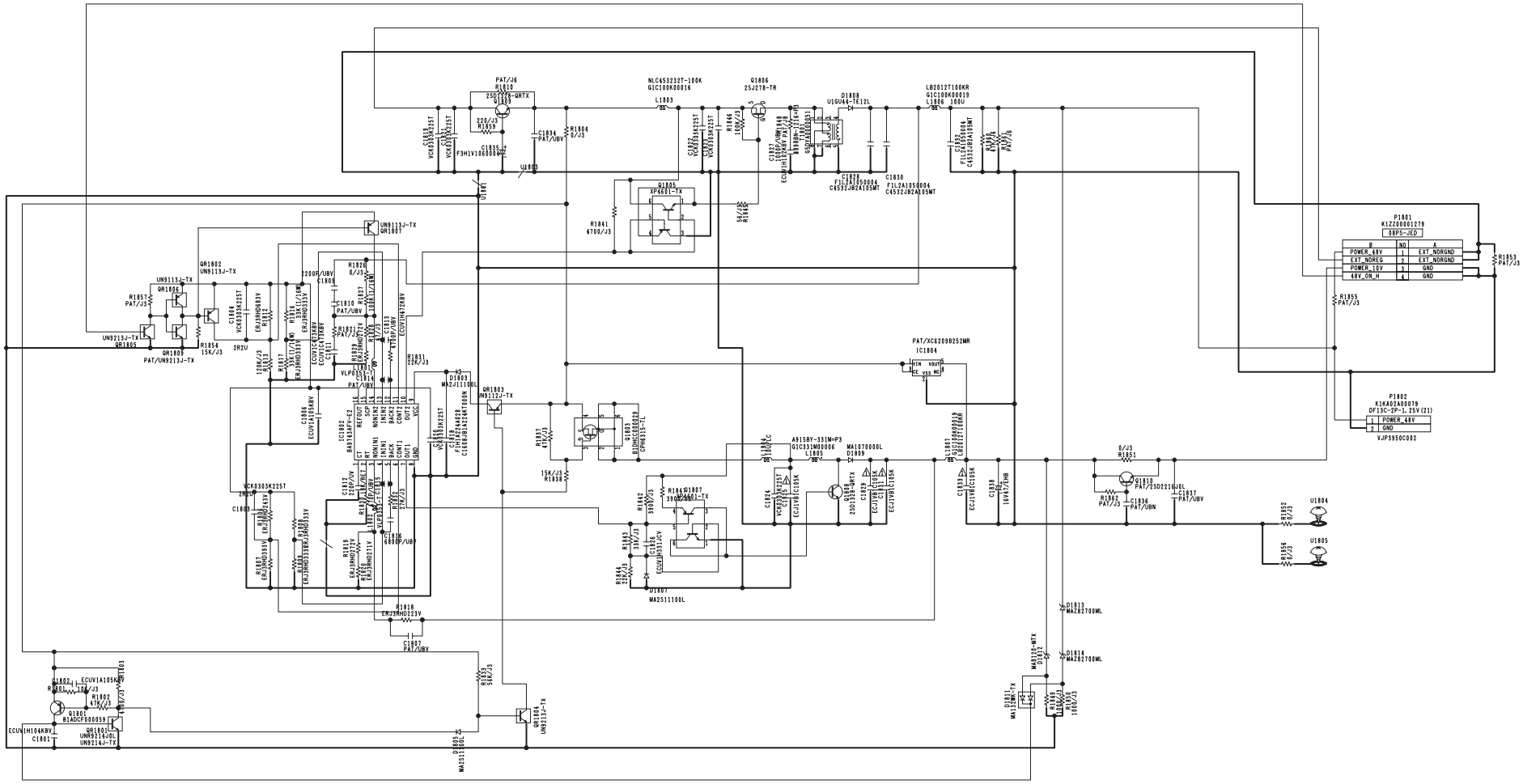
COMPONENT NAME	SW(CN)	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04870A		KR4A0054 (2/2)
		SCM039



COMPONENT NAME	MAIN(GAIN_SEL)	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04875A		KR4A0065 (1/2)
		SCM040

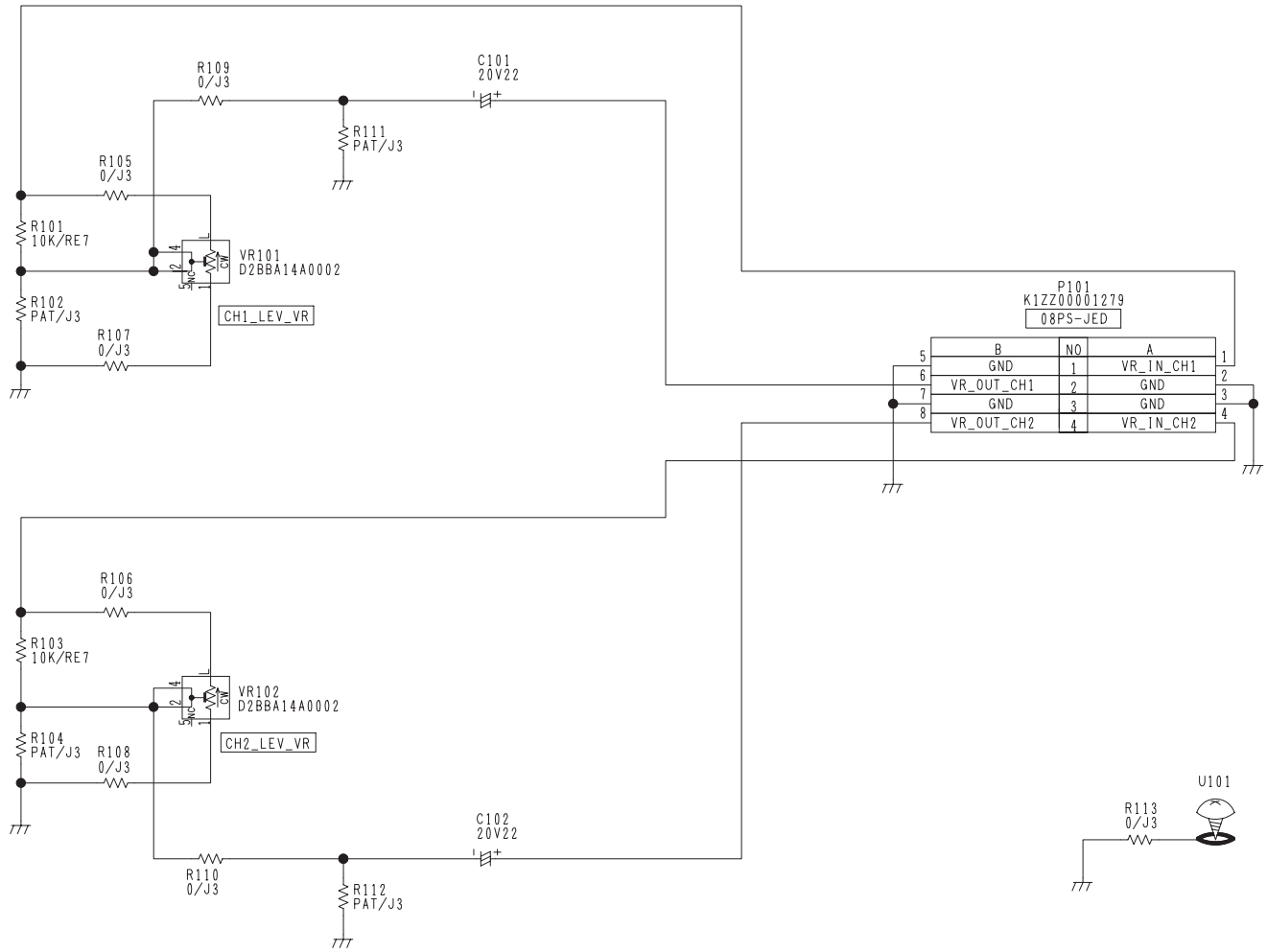


COMPONENT NAME	**MAIN(VR_I/O)**	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04875A		KR4A0065 (2/2)
		SCM041



PAT=PATTERN ONLY
Ref No. 1800 Series.

COMPONENT NAME	POWER	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01956A		KR1A0054 (1/1)
		SCM042



COMPONENT NAME	**VR**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04871A		KR4A0055 (1/1)
		SCM043

SECTION 7

CIRCUIT BOARD DIAGRAMS

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 8

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

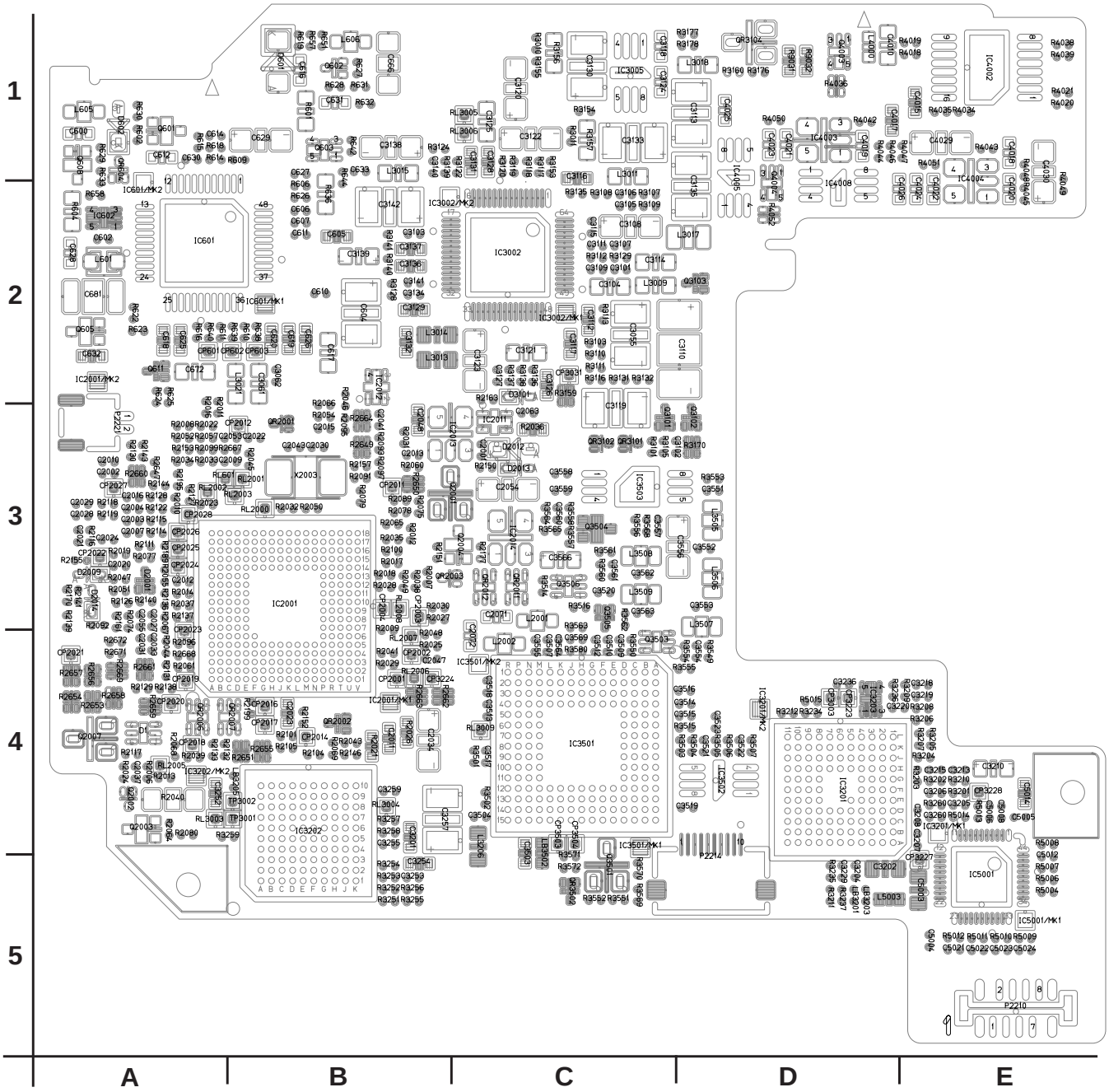
CONTENTS

VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B) (FOIL SIDE).....CBA-1
VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B) (COMPONENT SIDE) CBA-2
CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B) (FOIL SIDE) CBA-3
CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B) (COMPONENT SIDE).....CBA-4
POWER C.B.A. (VEP01952A) (FOIL SIDE).....CBA-5
POWER C.B.A. (VEP01952A) (COMPONENT SIDE) CBA-6

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	B3	IC3501	C4	IC601	A2	Q2007	A4	Q4003	D1	QR2002	B4	QR3501	C5
IC2011	C3	IC3502	D4	IC602	A2	Q3101	C3	Q4004	D2	QR2003	C3	QR3502	C5
IC2012	B2	IC3503	C3	P2210	E5	Q3102	D3	Q601	A1	QR2006	A4	QR604	A1
IC2013	C3	IC4002	E1	P2214	D5	Q3103	D2	Q602	B1	QR2007	B4	TP3001	B4
IC2014	C3	IC4003	D1	P2221	A3	Q3501	C5	Q603	B1	QR2011	C3	TP3002	B4
IC3002	C2	IC4004	E1	Q2001	C3	Q3503	C4	Q605	A2	QR2012	C3		
IC3005	C1	IC4005	D1	Q2002	A4	Q3504	C3	Q608	A1	QR3101	C3		
IC3201	D4	IC4008	D2	Q2003	A4	Q3505	C3	Q611	A2	QR3102	C3		
IC3202	B4	IC5001	E5	Q2004	C3	Q3506	C3	QR2001	B3	QR3104	D1		

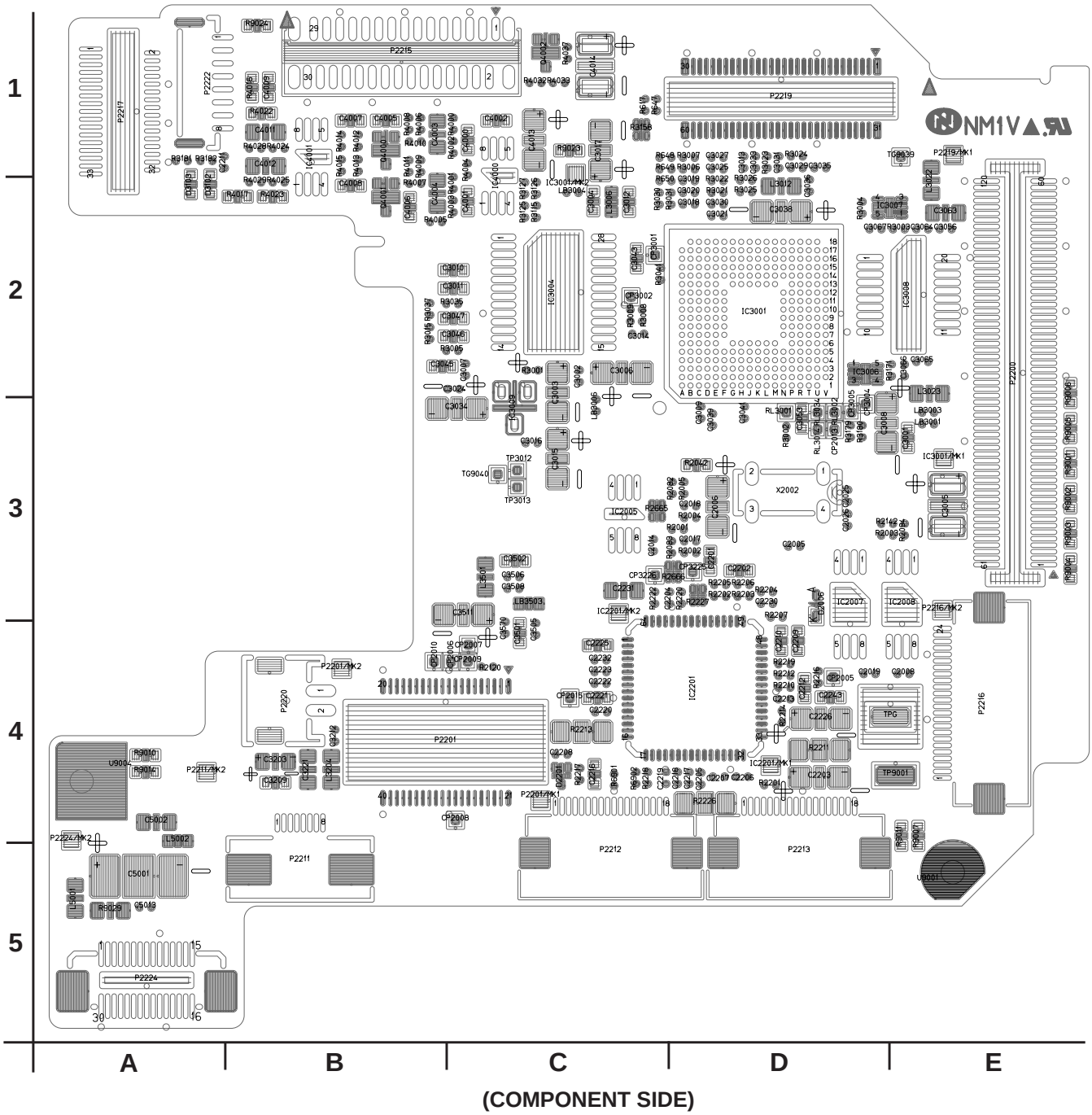


(FOIL SIDE)

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2005	C3	IC3007	D2	P2211	B5	P2220	B4	TP3013	C3
IC2007	D3	IC3008	E2	P2212	C5	P2222	A1	TP9001	E4
IC2008	E3	IC3009	C3	P2213	D5	P2224	A5	TG9040	C3
IC2201	D4	IC4000	C1	P2215	B1	Q4000	B1	TG9039	D1
IC3001	D2	IC4001	B1	P2216	E4	Q4001	B2	TPG	E4
IC3004	C2	P2200	E2	P2217	A1	Q4002	C1		
IC3006	D2	P2201	B4	P2219	D1	TP3012	C3		

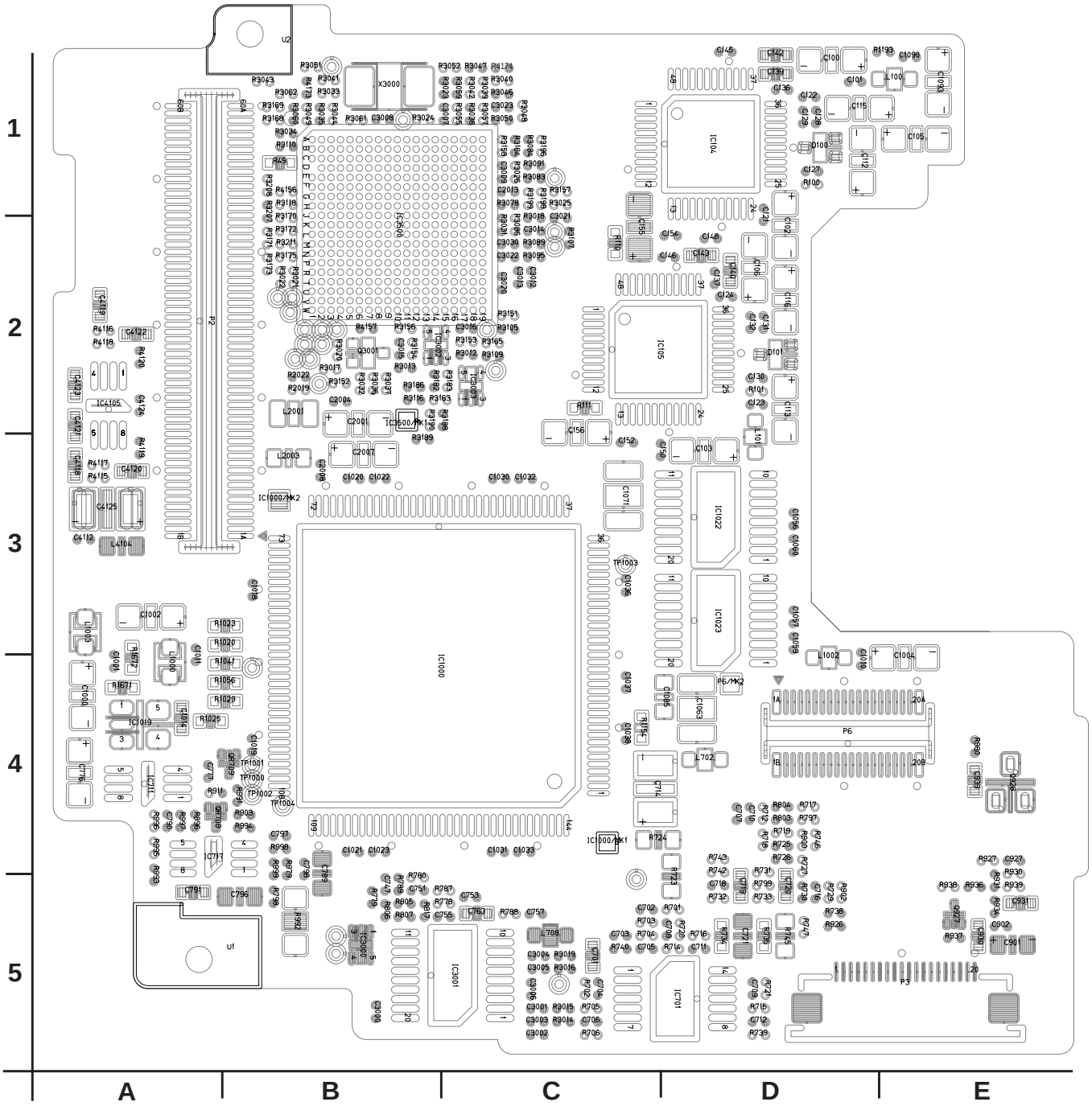


(COMPONENT SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	B4	IC3003	C2	Q3001	B2	TP1004	B4
IC1019	A4	IC3500	B2	Q927	E5		
IC1022	D3	IC4105	A2	Q928	E4		
IC1023	D3	IC701	D5	QR708	A4		
IC104	D1	IC711	A4	QR709	B4		
IC105	C2	IC717	A4	TP1000	B4		
IC3000	B5	P2	A2	TP1001	B4		
IC3001	C5	P3	E5	TP1002	B4		
IC3002	B2	P6	D4	TP1003	C3		

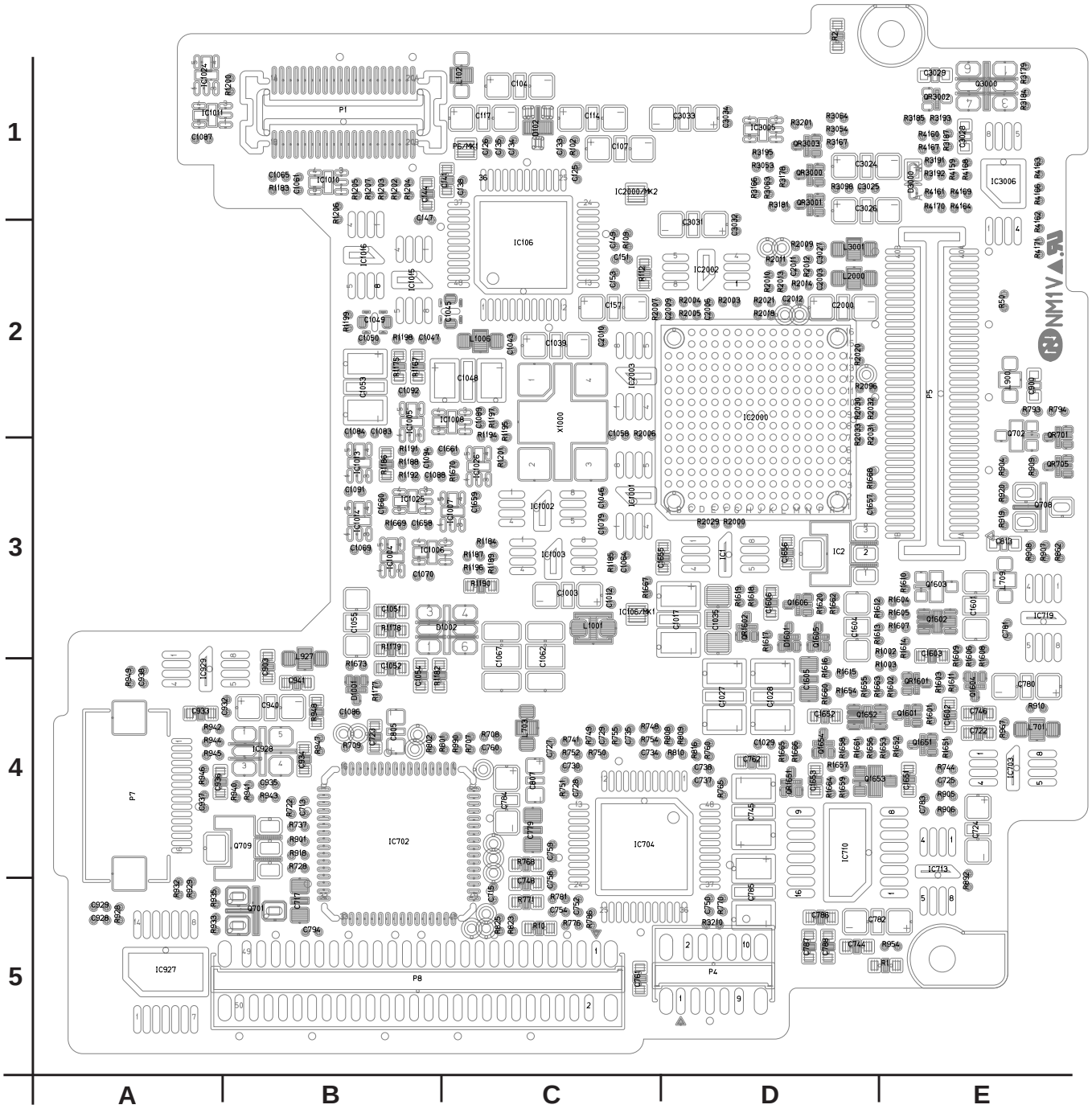


(FOIL SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D3	IC1010	B1	IC106	C2	IC704	C4	P5	E2	Q1651	E4	QR1601	E4
IC1001	C3	IC1011	A1	IC2	D3	IC710	D4	P7	A4	Q1652	D4	QR1602	D3
IC1002	C3	IC1013	B3	IC2000	E2	IC713	E4	P8	B5	Q1653	D4	QR1651	D4
IC1003	C3	IC1014	B3	IC2002	E2	IC719	E3	Q1601	E4	Q1654	D4	QR3000	D1
IC1004	B3	IC1015	B2	IC2003	C2	IC927	A5	Q1602	E3	Q3000	E1	QR3001	D1
IC1005	B2	IC1016	B2	IC3005	D1	IC928	B4	Q1603	E3	Q701	B5	QR3002	E1
IC1006	B3	IC1024	A1	IC3006	E1	IC929	A4	Q1604	E4	Q702	E2	QR3003	D1
IC1007	C3	IC1025	B3	IC702	B4	P1	B1	Q1605	D3	Q708	E3	QR701	E2
IC1008	C2	IC1026	C3	IC703	E4	P4	D5	Q1606	D3	Q709	B4	QR705	E3



(COMPONENT SIDE)

POWER C.B.A. (VEP01952A)

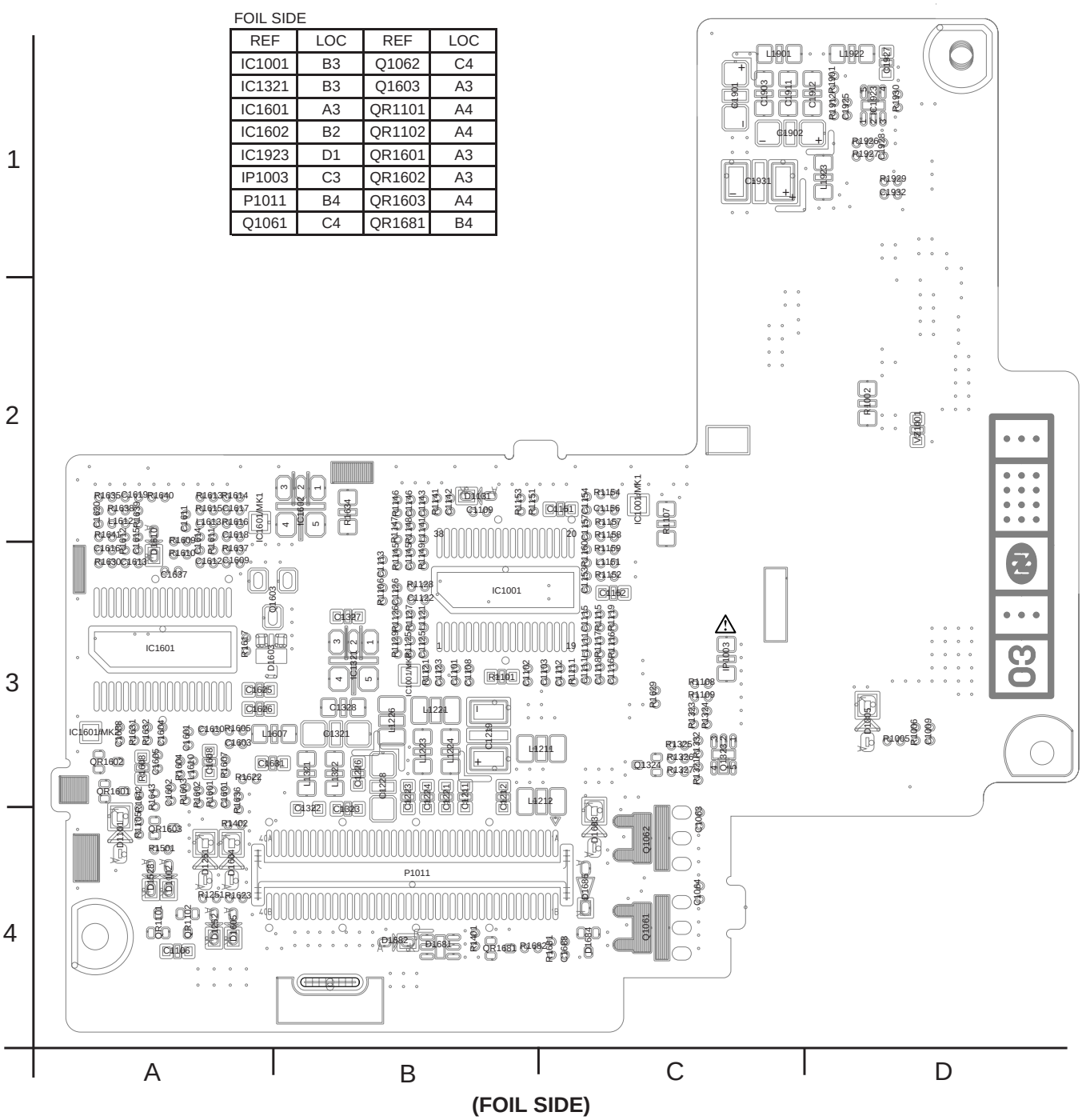
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

FOIL SIDE

REF	LOC	REF	LOC
IC1001	B3	Q1062	C4
IC1321	B3	Q1603	A3
IC1601	A3	QR1101	A4
IC1602	B2	QR1102	A4
IC1923	D1	QR1601	A3
IP1003	C3	QR1602	A3
P1011	B4	QR1603	A4
Q1061	C4	QR1681	B4



(FOIL SIDE)

POWER C.B.A. (VEP01952A)

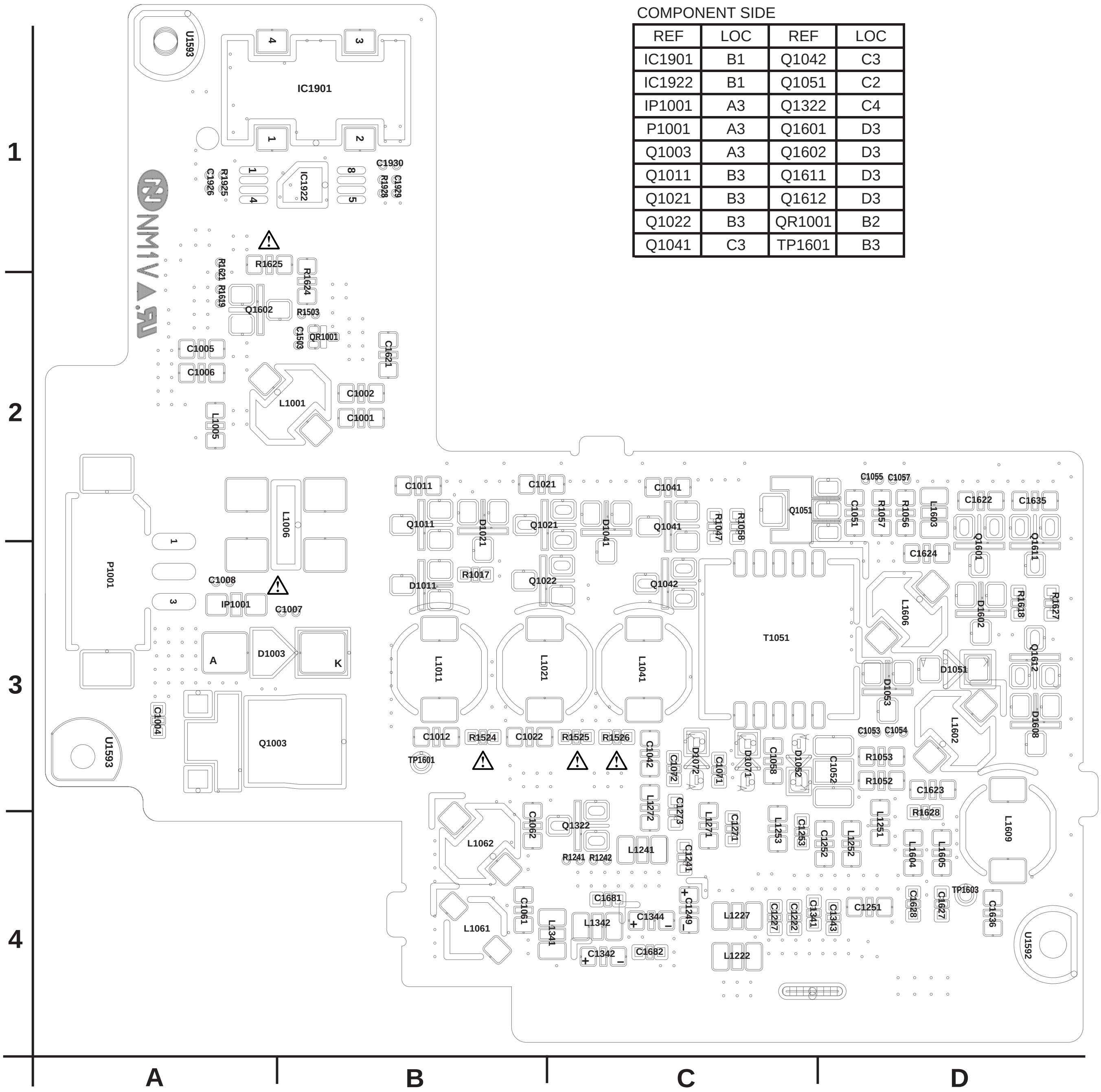
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
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⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

COMPONENT SIDE

REF	LOC	REF	LOC
IC1901	B1	Q1042	C3
IC1922	B1	Q1051	C2
IP1001	A3	Q1322	C4
P1001	A3	Q1601	D3
Q1003	A3	Q1602	D3
Q1011	B3	Q1611	D3
Q1021	B3	Q1612	D3
Q1022	B3	QR1001	B2
Q1041	C3	TP1601	B3



(COMPONENT SIDE)

SECTION 8

EXPLODED VIEWS
&
REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board unit marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.
7. "(M)" in Remark column indicates needed in the periodical maintenance.

CONTENTS

SERVICING FIXTURES & TOOLS

FRAME & CASING PARTS ASSEMBLY (1).....MPL-1

FRAME & CASING PARTS ASSEMBLY (2).....MPL-3

LCD PARTS ASSEMBLY.....MPL-5

PACKING PARTS ASSEMBLY.....MPL-7

CABINET PARTS ASSEMBLY (AG-MYA30G).....MPL-9

PACKING PARTS ASSEMBLY (AG-MYA30G).....MPL-11

ELECTRICAL REPLACEMENT PARTS LIST (AG-DVC30P).....EPL-1

ELECTRICAL REPLACEMENT PARTS LIST (AG-DVC30E, DVC32EN, DVC33MC).....EPL-15

ELECTRICAL REPLACEMENT PARTS LIST (AG-MYA30G).....EPL-29

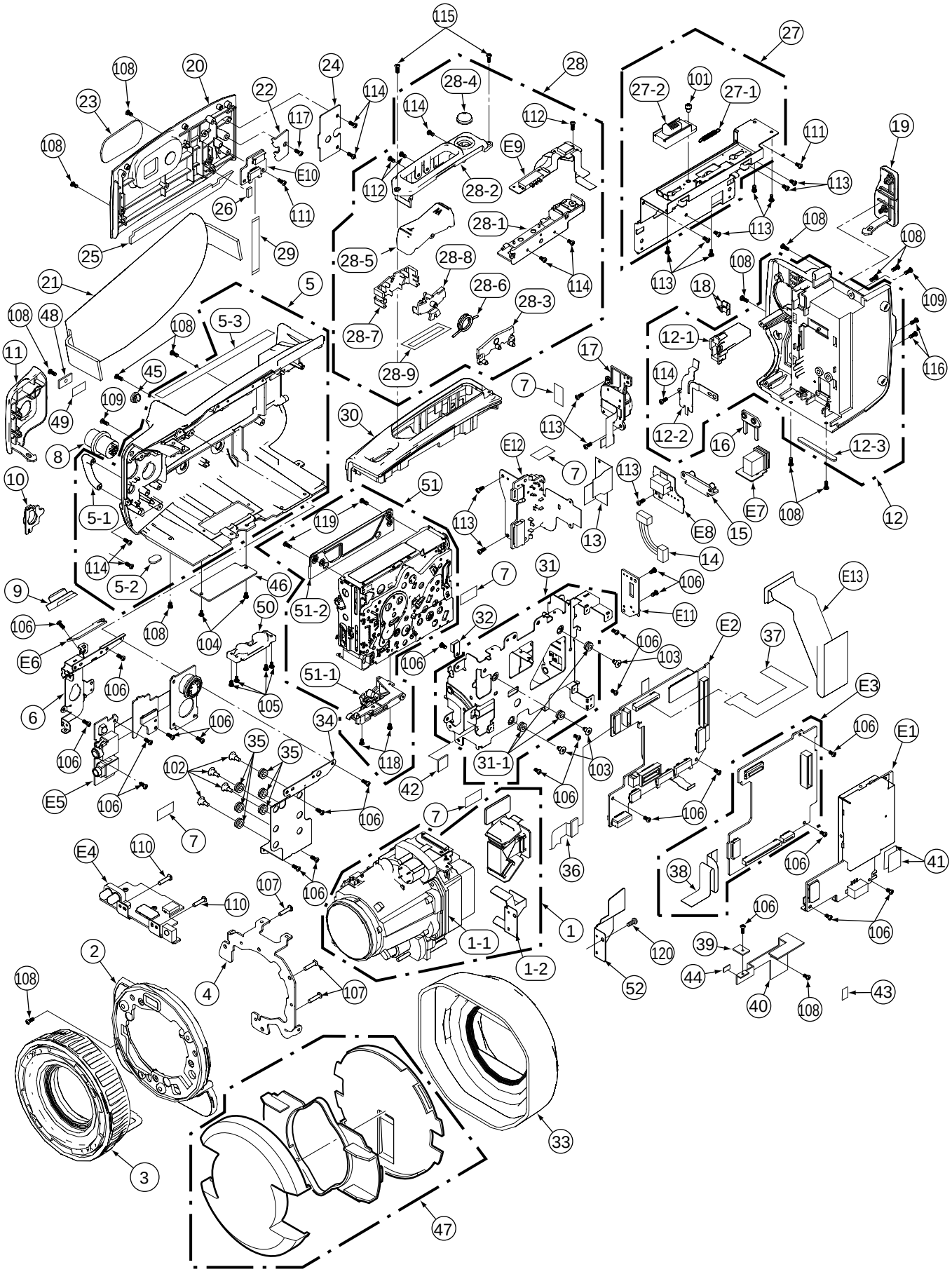
AG-DVC30P				AG-DVC30E, DVC32EN, DVC33MC			
Ref. No.	**Parts No.**	**C.B.A.**	**Page**	**Ref. No.**	**Parts No.**	**C.B.A.**	**Page**
E1	VEP01952A	POWER	EPL-1	E1	VEP01952A	POWER	EPL-15
E2	VEP03G60A	VTR	EPL-3	E2	VEP03G60B	VTR	EPL-17
E3	VEP23598A	CAMERA	EPL-7	E3	VEP23598B	CAMERA	EPL-21
E4	VEP06F67A	FRONT	EPL-11	E4	VEP06F67A	FRONT	EPL-25
E5	VEP04861A	SIDE JACK FPC	EPL-11	E5	VEP04861A	SIDE JACK FPC	EPL-25
E6	VEP001G1A	SUB REC	EPL-11	E6	VEP001G1A	SUB REC	EPL-25
E7	VEP01957A	DC IN	EPL-11	E7	VEP01957A	DC IN	EPL-25
E8	VEP01953A	BATTERY	EPL-11	E8	VEP01953A	BATTERY	EPL-25
E9	VEP06F66A	ZOOM FPC	EPL-12	E9	VEP06F66A	ZOOM FPC	EPL-26
E10	VEP001E3A	ZOOM CON	EPL-12	E10	VEP001E3A	ZOOM CON	EPL-26
E11	VEP001E5A	CAS OPEN	EPL-12	E11	VEP001E5A	CAS OPEN	EPL-26
E12	VEP04863A	REAR JACK	EPL-12	E12	VEP04863A	REAR JACK	EPL-26
E13	VEP001E8A	R-SIDE FPC	EPL-12	E13	VEP001E8A	R-SIDE FPC	EPL-26
E14	VEP06F68A	R-SIDE	EPL-12	E14	VEP06F68A	R-SIDE	EPL-26
E15	VEP06F64A	CAMARA OP	EPL-12	E15	VEP06F64A	CAMARA OP	EPL-26
E16	VEP001E1A	LCD OPEN	EPL-12	E16	VEP001E1A	LCD OPEN	EPL-26
E17	VEP001E4A	TALLY	EPL-12	E17	VEP001E4A	TALLY	EPL-26
E18	VEP001E0A	EVF CON	EPL-12	E18	VEP001E0A	EVF CON	EPL-26
E19	VEP04828A	MIC U	EPL-13	E19	VEP04828A	MIC U	EPL-27
E20	VEP28272B	EVF A	EPL-13	E20	VEP28272B	EVF A	EPL-27
E21	VEP28275B	EVF B	EPL-13	E21	VEP28275B	EVF B	EPL-27
E22	VEP001G2A	MENU FPC	EPL-13	E22	VEP001G2A	MENU FPC	EPL-27
E23	VEP26257B	MONITOR	EPL-13	E23	VEP26257B	MONITOR	EPL-27

SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	NTSC MODEL ONLY
2	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	PAL MODEL ONLY
3	VFM3000EDS	DV ALIGNMENT TAPE (LINEARITY)	1	
4	VFK1217	TAPE END/BEG DETECT CASSETTE	1	
8	VFK1308P	MEASURING BOARD	1	
9	VFK1309A	EVR CONNECTOR BOARD	1	
10	VFK1763	CONNECTOR ADAPTER	1	
11	VJA0941	DC CABLE	2	K2GY2DZ00003
12	VFK1317	30PIN FLAT CABLE	2	
13	VFK1164TAR43	43MM ATTACHMENT RING]	1	
14	VFK1164TCM01	COLLIMATOR SET	1	(INFINITY LENS)
15	VFK1345	CC FILTER HOLDER	1	
16	VFK1346	STEP DOWN RING	1	
17	VFK1659	STEP-UP RING	1	(43MM-49MM)
18	VFK1660	STEP-UP RING	1	(49MM-62MM)
19	VFK1341	CC FILTER (LB40)	1	NTSC MODEL ONLY
20	VFK1342	CC FILTER (LB80)	1	PAL MODEL ONLY
21	VFK1347	CC FILTER (LB120)	1	
22	VFK1884	CC FILTER (LBA2)	1	
23	VFK1888	CC FILTER (LBB6)	1	
24	VFK1885	CC FILTER (LBB2)	1	NTSC MODEL ONLY
25	VFK1886	CC FILTER (CC C10)	1	PAL MODEL ONLY
26	VFK1887	CC FILTER (CC C20)	1	PAL MODEL ONLY
27	VFK1409A	MEASURING BOARD	1	
28	VFK1899	POST DRIVER	1	
29	VFK1810	LISTA MEASURING BOARD	1	
30	VFK1186	LISTA CABLE	1	
31	VFK1300	A/D CONVERTER BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (1)

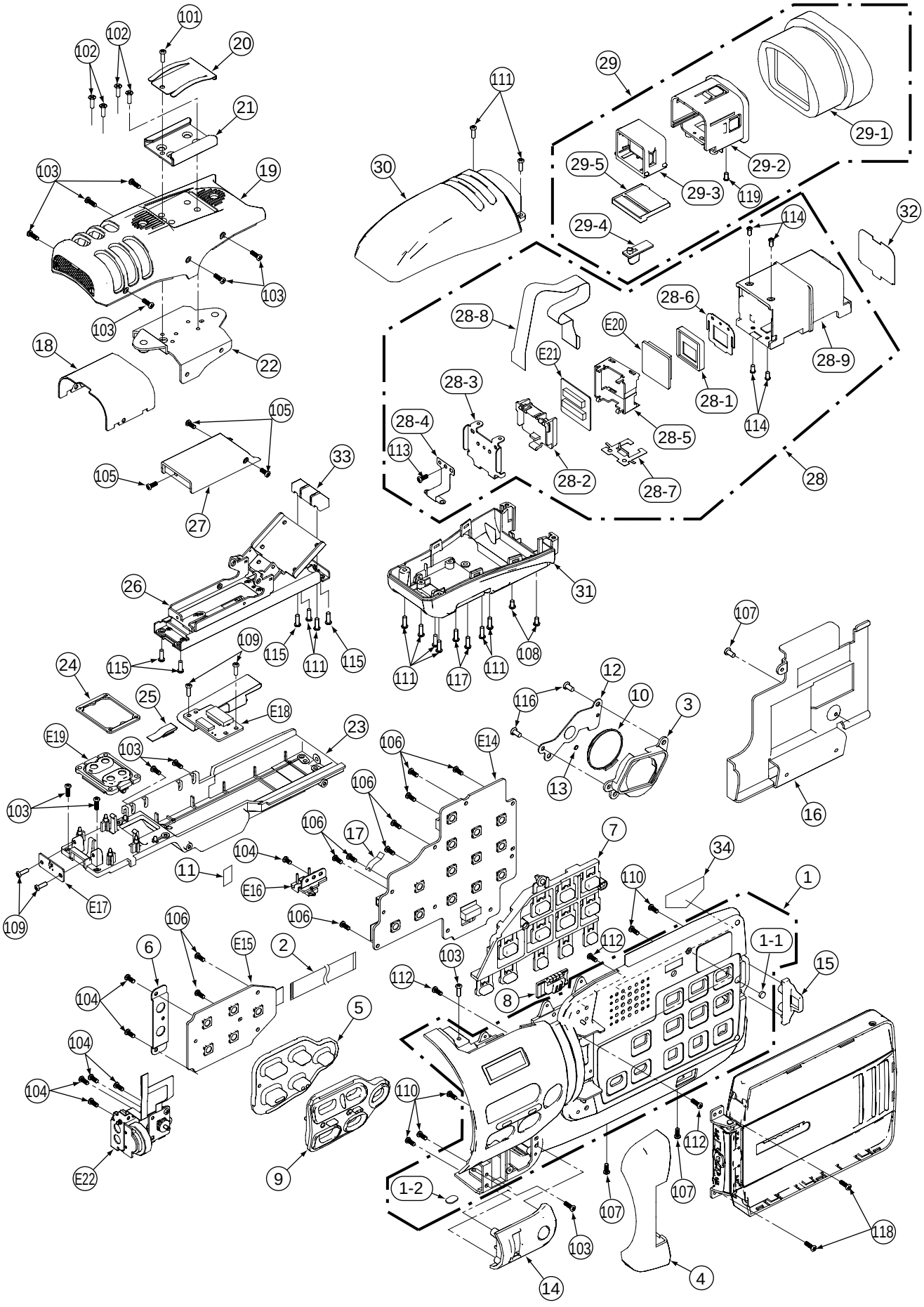


FRAME & CASING PARTS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXW0663/S	CAMERA LENS U	1	FOR AG-DVC30P
1	VXW0665/S	CAMERA LENS U	1	FOR AG-DVC30E/32EN/33MC
1-1	VXW0664	LENS U	1	
1-2	VGQ7875	HEAT SINK	1	
2	VYK1F22	FRONT CASE 1 U	1	
3	VXP2362	MF U	1	
4	VMP8012	FRONT BASE	1	
5	VYK1F32	SIDE CASE L 1 U	1	
5-1	VGQ6966	GLIP BELT PIECE	1	
5-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
5-3	VMT1609	SIDE (L) GASKET	1	
6	VMP8002	SIDE JACK FRAME	1	
7	VMZ3316	MONITOR FPC PROTECT SHEET	5	
8	VEE0Z36	MINI XLR HARNESS	1	
9	VGU9630	S/S BUTTON	1	
10	VGQ7941	MIC JACK COVER	1	
11	VJF1493	SIDE JACK COVER	1	
12	VYK1F36	REAR CASE 1 U	1	
12-1	VGU9617	BATTERY LOCK BUTTON	1	
12-2	VMC1804	BATTERY LOCK SPRING	1	
12-3	VKA0340	GLIP DUSTPROOF RUBBER	1	
13	VWJ1715	REAR FPC	1	
14	VEE0Z33	BATTERY HARNESS	1	
15	K4ZZ04000032	TERMINAL	1	
16	VMP7340	DCIN ANGLE	1	
17	N9ZZ00000252	S/S U	1	
18	VKW3222	MODE PANEL LIGHT	2	
19	VJF1494	REAR JACK COVER	1	
20	VGP6061	CASETTE COVER (L)	1	
21	VFB0218	HAND STRAP	1	
22	VMP8007	GLIP BELT FIX ANGLE	1	
23	VGH4759	CASSETTE COVER WINDOW	1	FOR AG-DVC30P
23	VGH4760	CASSETTE COVER WINDOW	1	FOR AG-DVC30E/32EN/33MC
24	VGF0998	BLIND PLATE	1	
25	VMT1574	CASSETTE COVER GASKET	1	
26	VMT1610	GYRO PCB CUSHION	1	
27	VXA7822	CASSETE COVER ROCK U	1	
27-1	VMB3680	EJECT LOCK BUTTON SPRING	1	
27-2	VGQ7943	EJECT BUTTON	1	
28	VYQ3026	ZOOM SW U	1	
28-1	VGQ7942	ZOOM LEVER CASE (R)	1	
28-2	VGQ6904	ZOON LEVER CASE (L)	1	
28-3	VGQ6928	ZOOM SW HOLDER	1	
28-4	VGU9203	REC CHECK RUBBER BUTTON	1	
28-5	VGU9215	ZOOM LEVER	1	
28-6	VMB3663	COIL SPRING ZOOM	1	
28-7	VGQ6996	ZOOM HOLDER (R)	1	
28-8	VGQ6997	ZOOM SPRING HOLDER PIECE	1	
28-9	VMZ3406	ZOOM PCB BLIND SHEET	1	
29	VWJ1742	ZOOM FFC	1	
30	VGP6060	CASSETTE COVER (U)	1	
31	VXK1788	MECHA ATTACH FRAME 1 U	1	
31-1	VMG1107	MECH DUMPER RUBBER	3	
32	L2B000000001	SENSOR UNIT	1	
33	VYF2982	HOOD U	1	
34	VMP8001	LENS FRAME	1	
35	VMG1463	DUSTPROOF RUBBER	6	
36	VWJ1713	SIDE JACK FPC	1	
37	VWJ1714	EVF CN FPC	1	
38	VWJ16E5110L0	FFC CABLE	1	
39	VSC5621	CCD CON SHIELD	1	
40	VSC5622	CCD CON STOPPER	1	
41	VGQ8091	COOLING SHEET P	2	
42	VGQ8093	COOLING SHEET M	1	
43	VGQ8094	COOLING SHEET CR	1	
44	VMZ3465	CD CON CUSHION	1	
45	VKF3415	MECHA COVER (L)	1	
46	VGQ5988	EVR COVER	1	
47	VYK0Z96	LENS CAP U	1	
48	VGP6074	MECHA COVER (R)	1	
49	VGF1009	MECHA COVER SHEET	1	
50	VMD5058	TRIPOD BASE	1	
51	VXY1843	MECHA CHASSIS U	1	
51-1	VML3876	CLEANING ROLLER U	1	
51-2	VGQ7971	GARAGE COVER	1	
52	VMA0S43	CONNECTION PLATE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
101	DXYN2+J4FNNT	SCREW	1	
102	VHD1132	SCREW	4	
103	VHD1133	SCREW	3	
104	VHD1451	SCREW	2	
105	VHD1601	SCREW	4	
106	XQN16+B3FN	SCREW	25	
107	XYN2+J8	SCREW	3	
108	XQN16+B4FZ	SCREW	14	
109	XQN16+B5FZ	SCREW	2	
110	XQN16+BJ35FN	SCREW	2	
111	XQN16+BJ3FN	SCREW	2	
112	XQN16+BJ3FZ	SCREW	3	
113	XQN16+BJ4FN	SCREW	13	
114	XQN16+BJ4FZ	SCREW	8	
115	XQN16+BJ6FZ	SCREW	2	
116	XQN2+B4FZ	SCREW	2	
117	XTB26+6GFZ	SCREW	1	
118	XQN14+B25	SCREW	2	
119	XQN16+B22FZ	SCREW	2	
120	XQN16+CJ4	SCREW	1	
E1	VEP01952A	POWER C.B.A.	1	
E2	VEP03G60A	VTR C.B.A.	1	FOR AG-DVC30P
E2	VEP03G60B	VTR C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E3	VEP23598A	CAMERA C.B.A.	1	FOR AG-DVC30P
E3	VEP23598B	CAMERA C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E4	VEP06F67A	FRONT C.B.A.	1	
E5	VEP04861A	SIDE JACK FLEX C.B.A.	1	
E6	VEP001G1A	SUB REC C.B.A.	1	
E7	VEP01957A	DC IN C.B.A.	1	
E8	VEP01953A	BATTERY C.B.A.	1	
E9	VEP06F66A	ZOOM FLEX C.B.A.	1	
E10	VEP001E3A	ZOOM CON C.B.A.	1	
E11	VEP001E5A	CAS OPEN C.B.A.	1	
E12	VEP04863A	REAR JACK C.B.A.	1	
E13	VEP001E8A	R-SIDE FLEX C.B.A.	1	

FRAME & CASING PARTS ASSEMBLY (2)

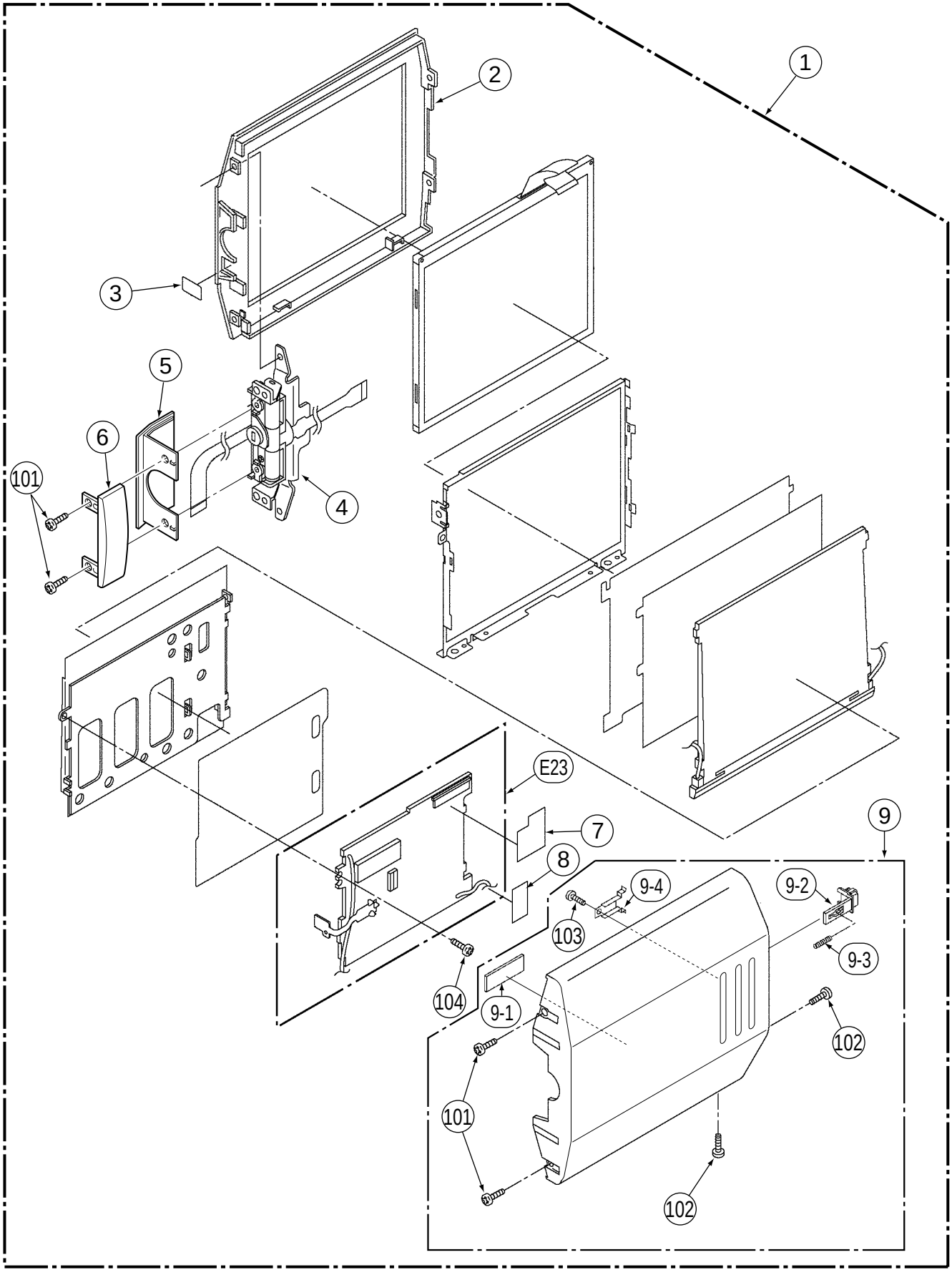


FRAME & CASING PARTS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F30	SIDE CASE R 1 U	1	
1-1	VMT1547	LCD CUSHION	1	
1-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
2	VWJ16E5080L0	FLAT CABLE	1	
3	VGQ6897	SPEAKER HOLDER	1	
4	VGP6064	HINGE COVER	1	
5	VGU9618	CAM BUTTON	1	
6	VMP8019	CAMERA PCB FRAME	1	
7	VGU9619	VTR BUTTON	1	
8	VGU9620	A/M KNOB	1	
9	VGQ7939	CAM BUTTON HOLDER	1	
10	VEK9842	SPEAKER ASS'Y	1	
11	VMZ3316	MONITOR FPC PROTECT SHEET	1	
12	VMP7330	SPEAKER HOLDER ANGLE	1	
13	VMT1347	SPEAKER HOLDER CUSHION	1	
14	VYP8947	MENU PANEL U	1	
15	VGQ7940	LCD LOCK BASE	1	
16	VSC5625	HEAT SINK (SIDE R)	1	
17	VMC1936	KNOB HOLD FRAME	1	
18	VYQ3027	MIC NET U	1	
19	VYK1F42	MIC CASE 1 U	1	
20	VMC1931	SPRING	1	
21	VJF1504	SHOE	1	
22	VMP8023	SHOE HOLD ANGLE	1	
23	VYK1F34	TOP CASE 1 U	1	
24	VGQ6352	DUMPER HOLDER PIECE	1	
25	VWJ07E5030L0	FFC CABLE	1	
26	VXA7804	EVF SLIDE U	1	
27	VKF3890	EVF SLIDE COVER	1	
28	VYQ3024	EVF LCD HOLDER U	1	
28-1	L5BDDXE00001	ACTIVE MATRIX LCD PANEL	1	
28-2	VGQ6927	EVF COVER	1	
28-3	VMP7360	EVF COVER ANGLE	1	
28-4	VMC1919	EVF EARTH SPRING	1	
28-5	VMX2967	PB SPACER	1	
28-6	VGQ7088	LCD MASK	1	
28-7	VMC1612	EVF EARTH SPRING	1	
28-8	VWJ1716	EVF FPC	1	
28-9	VGQ7947	EVF LCD CASE	1	
29	VYK8120	EYE CAP HOLDER U	1	
29-1	VMG1100	EYE CAP	1	
29-2	VGQ4586	EYE CAP HOLDER	1	
29-3	VYQ1445	LENS HOLDER	1	
29-4	VGU7612	EYE SIGHT KNOB	1	
29-5	VGQ4588	KNOB GUIDE	1	
30	VYK1F24	EVF TOP CASE U	1	
31	VGP6063	EVF CASE (UNDER)	1	
32	VGQ7948	EVF LCD FILTER	1	
33	VGF1001	TOP BLINDFOLD PIECE	1	
34	VGQ8092	COOLING SHEET R	1	
101	DXSN2+4FCNT	SCREW	1	
102	DXSS2+5FZNT	SCREW	4	
103	XQN16+B5FZ	SCREW	12	
104	XQN16+B3FN	SCREW	7	
105	XQN16+B3FZ	SCREW	3	
106	XQN16+B4FN	SCREW	10	
107	XQN16+B4FZ	SCREW	3	
108	XQN16+BJ3FZ	SCREW	2	
109	XQN16+BJ4FN	SCREW	4	
110	XQN16+BJ4FZ	SCREW	5	
111	XQN16+BJ5FZ	SCREW	10	
112	XQN16+BJ6FZ	SCREW	4	
113	XQN16+C25FZ	SCREW	1	
114	XQN16+C3	SCREW	4	
115	XQN2+A5FZ	SCREW	4	
116	XQN2+C5	SCREW	2	
117	XQS16+AJ5FZ	SCREW	2	
118	XYN2+C5	SCREW	2	
119	XQN16+BJ3FN	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E14	VEP06F68A	R-SIDE C.B.A.	1	
E15	VEP06F64A	CAMERA OP C.B.A.	1	
E16	VEP001E1A	LCD OPEN C.B.A.	1	
E17	VEP001E4A	TALLY C.B.A.	1	
E18	VEP001E0A	EVF CON C.B.A.	1	
E19	VEP04828A	MIC C.B.A.	1	
E20	VEP28272B	EVF A C.B.A.	1	
E21	VEP28275B	EVF B C.B.A.	1	
E22	VEP001G2A	MENU FLEX C.B.A.	1	

LCD PARTS ASSEMBLY

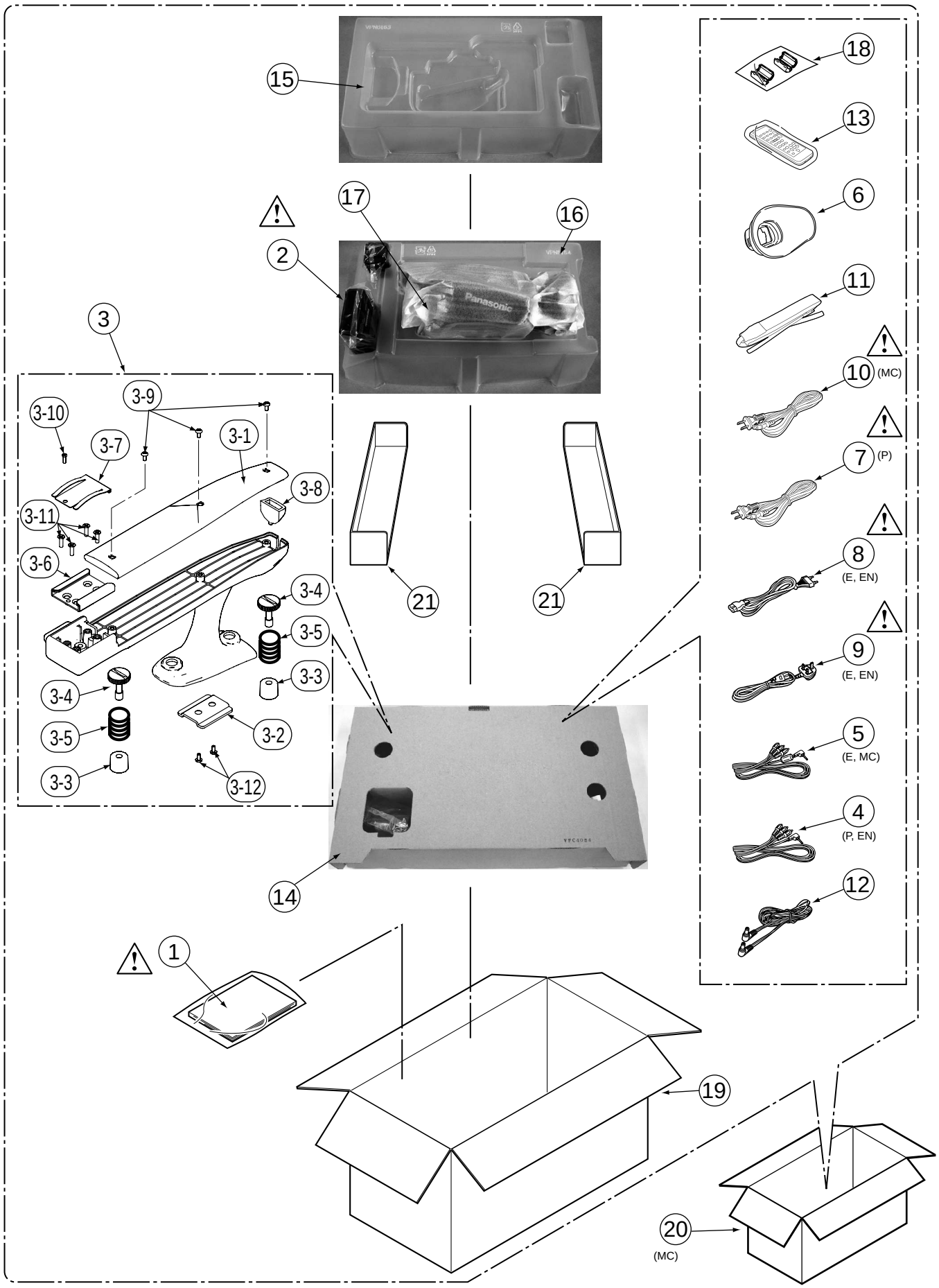


LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F09S	LCD U	1	FOR AG-DVC30P/E
1	VYK1J18	LCD U	1	FOR AG-DVC32EN
1	VYK1F19S	LCD U	1	FOR AG-DVC33MC
2	VKM6484	LCD CASE (BOTTOM)	1	
3	VGQ4758	BLIND SHEET (A)	1	
4	VXD0424S	LCD HINGE U	1	
5	VGQ7950	HINGE CASE (BOTTOM)	1	
6	VGQ7949	HINGE CASE (TOP)	1	
7	VGQ6644	BARRIER (LCD)	1	
8	VGQ6286	LCD BARRIER	1	
9	VYK1F27S	LCD CASE (TOP) U	1	FOR AG-DVC30P/E
9	VYK1J19	LCD CASE (TOP) U	1	FOR AG-DVC32EN
9	VYK1F28S	LCD CASE (TOP) U	1	FOR AG-DVC33MC
9-1	VGQ6290	LCD CUSHION	1	
9-2	VGQ7951	LCD LOCK PIECE	1	
9-3	VMB3217	LCD LOCK SPRING	1	
9-4	VMP6292	LOCK PIECE FIX ANGLE	1	
101	VHD1451	SCREW	4	
102	XQN16+B25FN	SCREW	2	
103	XQS16+AJ3	SCREW	1	
104	XQN16+B2FN	SCREW	1	
E23	VEP26257B	MONITOR C.B.A.	1	

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

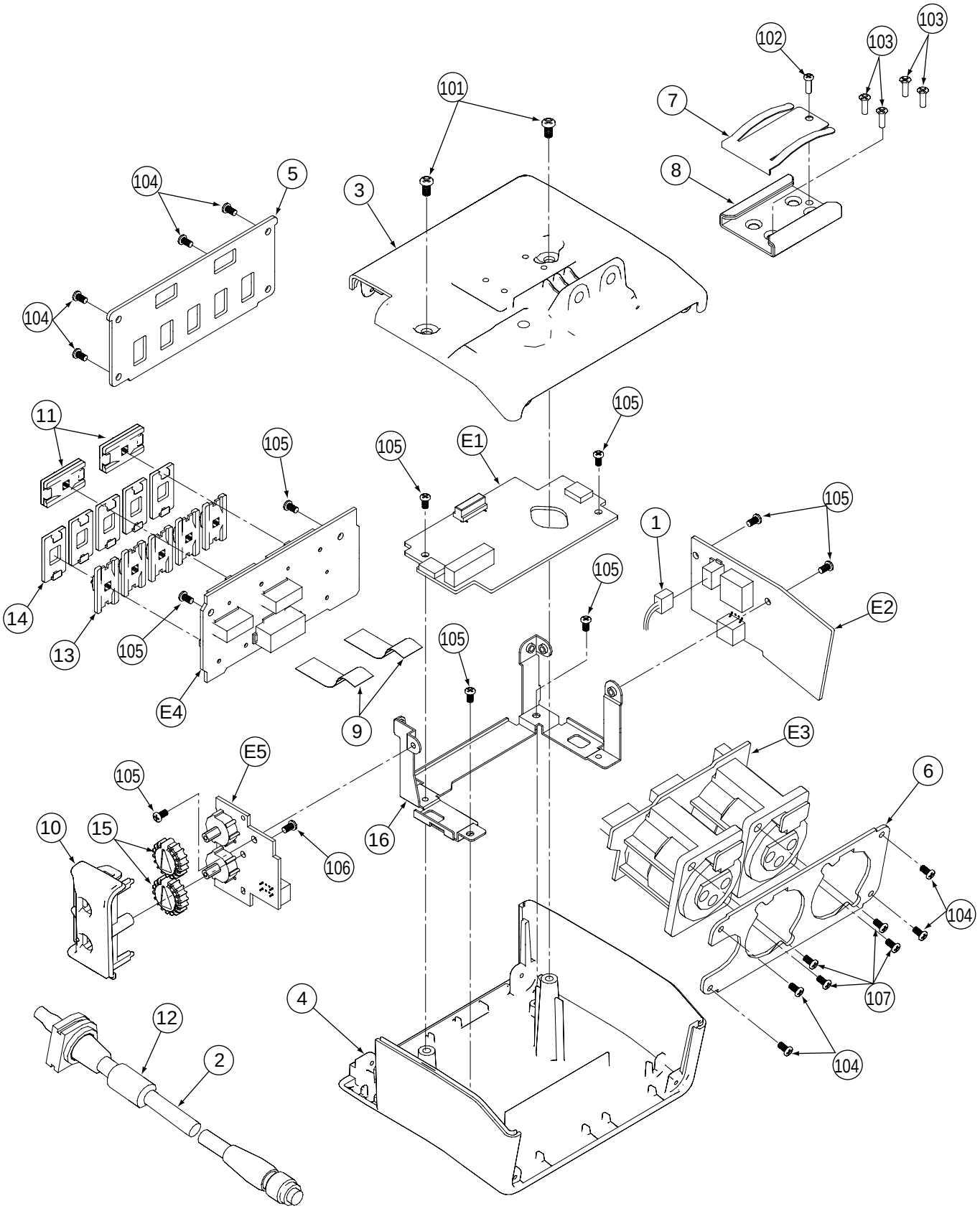


PACKING PARTS ASSEMBLY

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VQT0J25	OPERATING INSTRUCTIONS	1	FOR AG-DVC30P
⚠ 1	VQT0J26	OPERATING INSTRUCTIONS	1	FOR AG-DVC30E
⚠ 1	VQT0L09	OPERATING INSTRUCTIONS	1	FOR AG-DVC32EN
⚠ 1	VQT0J27	OPERATING INSTRUCTIONS	1	FOR AG-DVC33MC
⚠ 2	DE-852DB	AC ADAPTOR	1	FOR AG-DVC30P
⚠ 2	DE-811DB	AC ADAPTOR	1	FOR AG-DVC30E/32EN
⚠ 2	DE-811FB	AC ADAPTOR	1	FOR AG-DVC33MC
3	VYH0312	HANDLE U	1	
3-1	VGQ7970	HANDLE COVER	1	
3-2	VGM2084	HANDLE SPACER	1	
3-3	VMG1627	HANDLE HOLD RUBBER	2	
3-4	VHD1661	HANDLE HOLD SCREW	2	
3-5	VMB3894	HANDLE SCREW FLAT SPRING	2	
3-6	VJF1504	SHOE	1	
3-7	VMC1931	SPRING	1	
3-8	VMG1628	HANDLE CUSHION RUBBER	1	
3-9	XQN2+A5FZ	SCREW	3	
3-10	DXSN2+4FCNT	SCREW	1	
3-11	DXSS2+4FZNT	SCREW	4	
3-12	DXSS3+6FZNT	SCREW	2	
4	K2KC4CB00009	AV CABLE	1	FOR AG-DVC30P/32EN
5	VYC0922	AV CABLE	1	FOR AG-DVC30E/33MC
6	VMG1370	EYE CAP	1	
⚠ 7	K2CB2CB00006	POWER CORD	1	FOR AG-DVC30P
⚠ 8	K2CR2DA00005	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 9	K2CT3DA00001	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 10	K2CA2DA00030	POWER CORD	1	FOR AG-DVC33MC
11	VFC3891	SHOULDER BELT	1	
12	K2GJ2DC00002	DC CORD	1	
13	VFA0402	WIRELESS REMOTE CONTROL	1	
14	VPG0Y21	ACCESSORY BOX	1	
15	VPN6164	CUSHION (B)	1	
16	VPN6163	CUSHION (T)	1	
17	VPF1218	PROTECTION BAG	1	
18	J0KG00000013	CORE	2	FOR AG-DVC30E/32EN/33MC
19	VPG0Y08	PACKING CASE (P) B	1	FOR AG-DVC30P
19	VPG0Y09	PACKING CASE (P) B	1	FOR AG-DVC30E
19	VPG0Z57	PACKING CASE (P) B	1	FOR AG-DVC32EN
19	VPG0Y11	PACKING CASE (P) B (IN)	1	FOR AG-DVC33MC
20	VPG0Y10	PACKING CASE (OUT)	1	FOR AG-DVC33MC
21	VPN6237	PARTITION PLATE	2	

CABINET PARTS ASSEMBLY (AG-MYA30G)

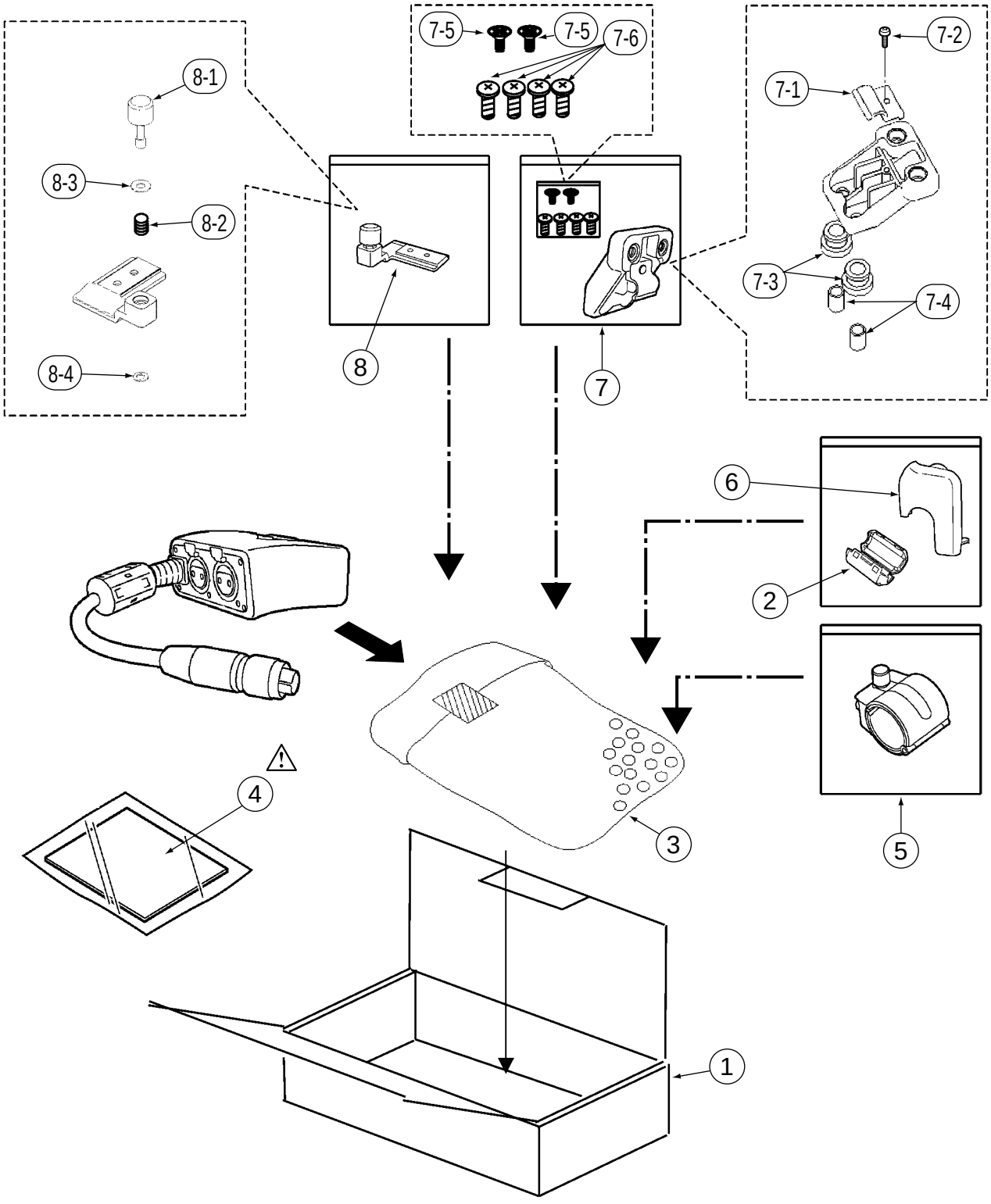


CABINET PARTS ASSEMBLY (AG-MYA30G)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEE0Z45	POWER CABLE	1	
2	VEC0993	MINI XLR CABLE	1	
3	VGM2081	XLR BOX TOP-CASE	1	
4	VGM2082	XLR BOX BOTTOM CASE	1	
5	VMP8010	SLIDE SW NAME PLATE	1	
6	VMP8011	XLR NAME PLATE	1	
7	VMC1931	SPRING	1	
8	VJF1504	SHOE	1	
9	VWJ13E5045L0	FLEXIBLE CABLE	2	
10	VGQ8088	VR COVER	1	
11	VYQ3166	SLIDE TSUMAMI (L)U	2	
12	J0KG00000046	FERRITE CORE	1	
13	VGU9214	SLIDE KNOB	5	
14	VMG1460	SLIDE SW RUBBER COVER	5	
15	VGU9641	AUDIO VR KNOB	2	
16	VMP8039	BOX PCB ANGLE	1	
101	XQN26+A5FZ	SCREW	2	
102	XQN2+C2FN	SCREW	1	
103	XSS2+4FZ	SCREW	4	
104	XQN16+B3FZ	SCREW	8	
105	XQN16+B25FN	SCREW	9	
106	XQN16+BJ4FN	SCREW	1	
107	XYN26+A6FZ	SCREW	4	
E1	VEP04875A	MAIN C.B.A.	1	
E2	VEP01956A	POWER C.B.A.	1	
E3	VEP04869A	XLR C.B.A.	1	
E4	VEP04870A	SW C.B.A.	1	
E5	VEP04871A	VR C.B.A.	1	

PACKING PARTS ASSEMBLY (AG-MYA30G)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.



PACKING PARTS ASSEMBLY (AG-MYA30G)

Components identified with the mark ⚠ have the special characterisitics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0Z18	PACING CASE	1	
2	J0KG00000046	FERRITE CORE	1	
3	VPF1219	CUSHION BAG	1	
⚠ 4	VQT0K50	OPERATING INSTRUCTIONS	1	
5	VYC0870	MIC HOLDER U	1	
6	VJF1497	SIDE JACK COVER(XLR)	1	
7	VYC0920	MIC ADAPTOR U	1	
7-1	VJF0804	CABLE CLAMPER	1	
7-2	XQN2+CJ6FZ	SCREW	1	
7-3	VMG1189	RUBBER BUSH	2	
7-4	VMX2835	SPACER	2	
7-5	XSS3+6FZ	SCREW	2	
7-6	XSB4+12FXKS	SCREW	4	
8	VYQ3157	BOX HOLD ANGLE U	1	
8-1	VHD1669	BOX HOLD SCREW	1	
8-2	VMB3900	BOX SCREW SPRING	1	
8-3	VMX3416	HOLD ANGLE WASSYA UPEER	1	
8-4	VMX3417	HOLD ANGLE WASSYA LOWER	1	

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ELECTRICAL REPLACEMENT PARTS LIST
AG-DVC30P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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AG-DVC30E, AG-DVC32EN, AG-DVC33MC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

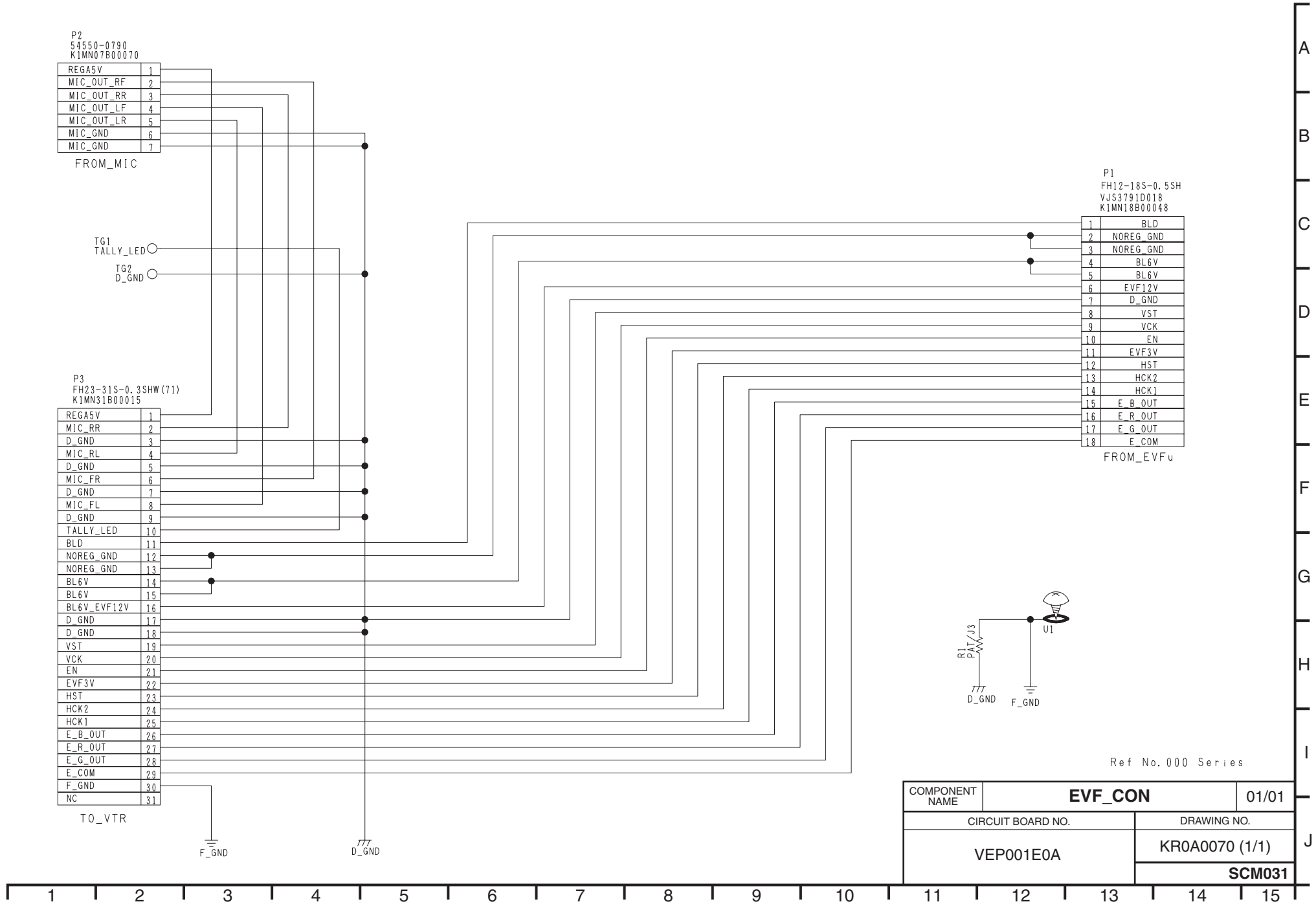
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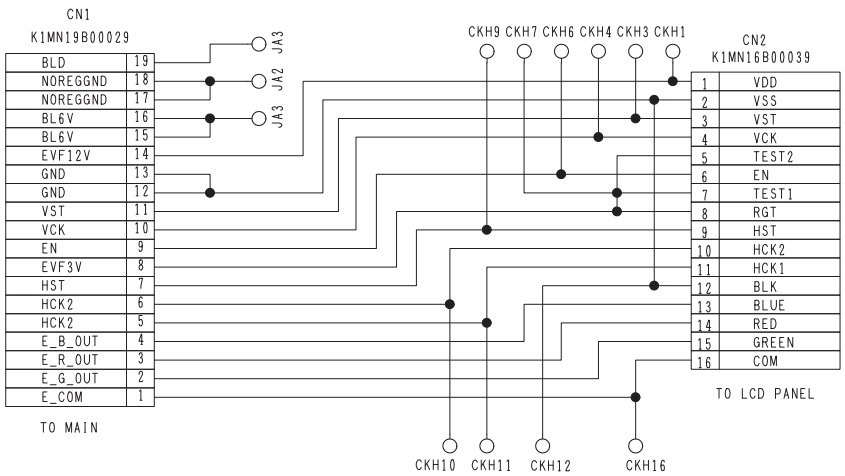
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
C401,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C403-06	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C407,08	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C409,10	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C411-13	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C414-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C451	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C452-54	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C455	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C456,57	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C458	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C459,60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C461	F3H1D2260003	T.CAPACITOR CH 20V 22U	1	
D401-04	MA3J14300L	DIODE	4	
D451	MA142K	DIODE	1	
IC401,02	NJM2122M	IC	2	
IC403,04	TA75W558FU	IC	2	C0ABBA000042
IC405,06	TC7W53FU	IC	2	
IC451	TC7W53FU	IC	1	
IC452	TA75W558FU	IC	1	C0ABBA000042
IC453	AN77L09M	IC	1	
P451	K1ZZ00001280	CONNECTOR	1	
P452	VJS3846A030	CONNECTOR (FEMALE)	1	
P453	K1KA08A00434	CONNECTOR (MALE)	1	
P454	K1ZZ00001280	CONNECTOR	1	
Q401	2SD1819A-R	TRANSISTOR	1	
Q451	2SD1819A-R	TRANSISTOR	1	
QR401,02	UNR521300L	TRANSISTOR	2	
QR403,04	UNR511300L	TRANSISTOR	2	
QR405,06	UNR521300L	TRANSISTOR	2	
R401,02	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	2	
R403	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R405	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R407-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R419	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R420	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R422,23	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R424,25	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R426,27	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R451-53	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	3	
R454	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R455	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R456	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R457,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R459,60	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R463-65	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
C1801	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1802	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1803,04	VCK0303K225	C.CAPACITOR 2.2U	2	
C1806	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1809	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1811	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1812	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1813	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1815	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C1816	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C1818	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1819-24	VCK0303K225	C.CAPACITOR 2.2U	6	
C1825	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1826	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1827	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C1828	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1829	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1830	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1831	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1832	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1833	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
D1803	MA111	DIODE	1	
D1805	MA2S11100L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	U1GU44	DIODE	1	
D1809	MA3J70000L	DIODE	1	
D1811	MA3S132E0L	DIODE	1	
D1812	MA8120-M	DIODE	1	
D1813,14	MAZ82700ML	DIODE	2	
IC1802	BA9743AFV	IC	1	C0DBAZC00010
L1801,02	J0JBC0000019	FILTER	2	
L1803	G1C100K00016	COIL 10UH	1	
L1804	VLQ0319K100	COIL 10UH	1	G1C100K00023
L1805	G1C331M00006	COIL 330UH	1	
L1806,07	G1C100K00019	COIL 10UH	2	
P1801	K1ZZ00001279	CONNECTOR	1	
P1802	K1KA02A00079	CONNECTOR (MALE)	1	
Q1801	B1ADCF000059	TRANSISTOR	1	
Q1803	B1DHCC000029	TRANSISTOR	1	
Q1805	XP0460100L	TRANSISTOR	1	
Q1806	2SJ278	TRANSISTOR	1	
Q1807	XP0460100L	TRANSISTOR	1	
Q1808	2SD1328-R	TRANSISTOR	1	
QR1801	UNR9214J0L	TRANSISTOR	1	
QR1802	UNR9113J0L	TRANSISTOR	1	
QR1803	UN9112J	TRANSISTOR	1	
QR1804,05	UN9213	TRANSISTOR-RESISTOR	2	
QR1806,07	UNR9113J0L	TRANSISTOR	2	
R1801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1802	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1804	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1806	ERJ3RHD243	M.RESISTOR CH 1/16W 24K	1	
R1807	ERJ3RHD393	M.RESISTOR CH 1/16W 39K	1	
R1808,09	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	
R1810	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1812	ERJ3RHD683	M.RESISTOR CH 1/16W 68K	1	
R1813	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1816,17	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	

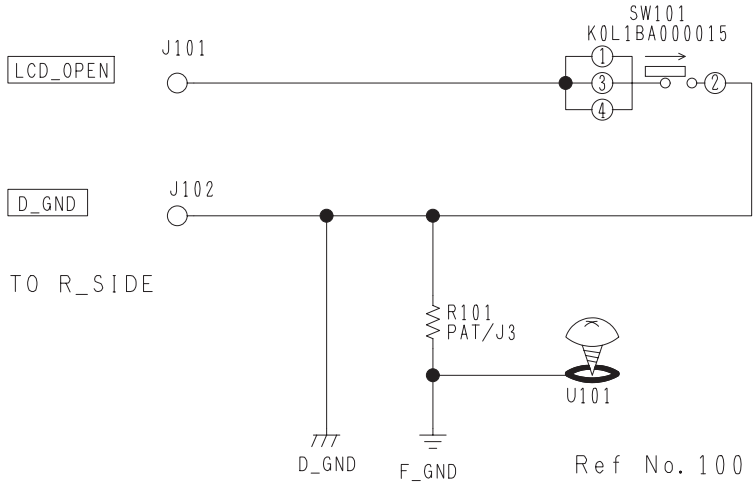
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ3RHD223	M.RESISTOR CH 1/16W 22K	1	
R1819	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1820	ERJ3RHD271	M.RESISTOR CH 1/16W 270	1	
R1826	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1827	ERJ3RHD104	M.RESISTOR CH 1/16W 100K	1	
R1828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1829	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1830	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1831	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1832	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1833	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1837	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1838	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1841	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1842	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1843	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1844	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1845	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R1846	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1847	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1849,50	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1851,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1854	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1856	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1801	G5DYA0000051	TRANSFORMER	1	
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
C301,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C303	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C304,05	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C306	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C310	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C351,52	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C353	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C354,55	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C356	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
J301	K1AB103A0007	CONNECTOR (MALE)	1	
J351	K1AB103A0007	CONNECTOR (MALE)	1	
L301,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L303	VLF1315A102	FILTER	1	J0JHC0000015
L305	VLF1315A102	FILTER	1	J0JHC0000015
L307	VLF1315A102	FILTER	1	J0JHC0000015
L351,52	VLQ0163J100	COIL 10UH	2	G1C100J00001
L353	VLF1315A102	FILTER	1	J0JHC0000015
L355	VLF1315A102	FILTER	1	J0JHC0000015
L357	VLF1315A102	FILTER	1	J0JHC0000015
P301	VJS3826A013	CONNECTOR (FEMALE)	1	
P302	K1KA02A00079	CONNECTOR (MALE)	1	
P351	VJS3826A013	CONNECTOR (FEMALE)	1	
Q301	2SB1220-R	TRANSISTOR	1	
Q302	2SD1824	TRANSISTOR	1	
Q351	2SB1220-R	TRANSISTOR	1	
QR301	UNR521300L	TRANSISTOR	1	
QR351	UNR521300L	TRANSISTOR	1	
R303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R305,06	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R307	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R308	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R309,10	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R311,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R313,14	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R353	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355,56	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R357	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R358	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R359,60	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R361,62	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R363,64	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
D201	MA142WK	DIODE	1	
P251	K1KA30B00055	CONNECTOR (MALE)	1	
P252,53	VJS3826A013	CONNECTOR (FEMALE)	2	
QR251,52	UNR521300L	TRANSISTOR	2	
R201,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R206	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R208,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R212	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R251,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW201	K0D142A00034	SWITCH	1	
SW202-04	K0D122A00126	SWITCH	3	
SW205	K0D142A00034	SWITCH	1	
SW206,07	K0D122A00126	SWITCH	2	
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
C101,02	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
P101	K1ZZ00001279	CONNECTOR	1	
R101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R105-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
VR101,02	D2BBA14A0002	V.RESISTOR 10K	2	

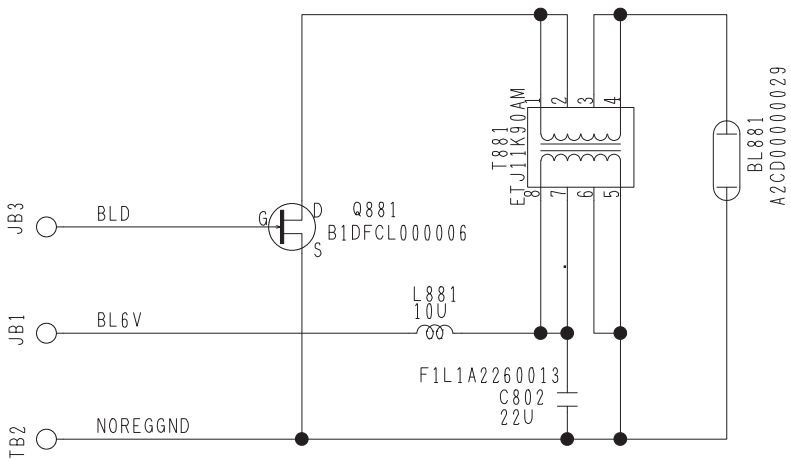

P2
54550-0790
K1MN07B00070
REGA5V 1
MIC_OUT_RF 2
MIC_OUT_RR 3
MIC_OUT_LF 4
MIC_OUT_LR 5
MIC_GND 6
MIC_GND 7
FROM_MIC
TG1
TALLY_LED
TG2
D_GND
P3
FH23-31S-0.3SHW(71)
K1MN31B00015
REGA5V 1
MIC_RR 2
D_GND 3
MIC_RL 4
D_GND 5
MIC_FR 6
D_GND 7
MIC_FL 8
D_GND 9
TALLY_LED 10
BLD 11
NOREG_GND 12
NOREG_GND 13
BL6V 14
BL6V 15
BL6V_EVF12V 16
D_GND 17
D_GND 18
VST 19
VCK 20
EN 21
EVF3V 22
HST 23
HCK2 24
HCK1 25
E_B_OUT 26
E_R_OUT 27
E_G_OUT 28
E_COM 29
F_GND 30
NC 31
TO_VTR
F_GND
D_GND
P1
FH12-18S-0.5SH
VJS3791D018
K1MN18B00048
1 BLD
2 NOREG_GND
3 NOREG_GND
4 BL6V
5 BL6V
6 EVF12V
7 D_GND
8 VST
9 VCK
10 EN
11 EVF3V
12 HST
13 HCK2
14 HCK1
15 E_B_OUT
16 E_R_OUT
17 E_G_OUT
18 E_COM
FROM_EVFu
U1
R1
PAT/J3
D_GND
F_GND
Ref No. 000 Series
COMPONENT NAME
EVF_CON
01/01
CIRCUIT BOARD NO.
VEP001E0A
DRAWING NO.
KR0A0070 (1/1)
SCM031
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



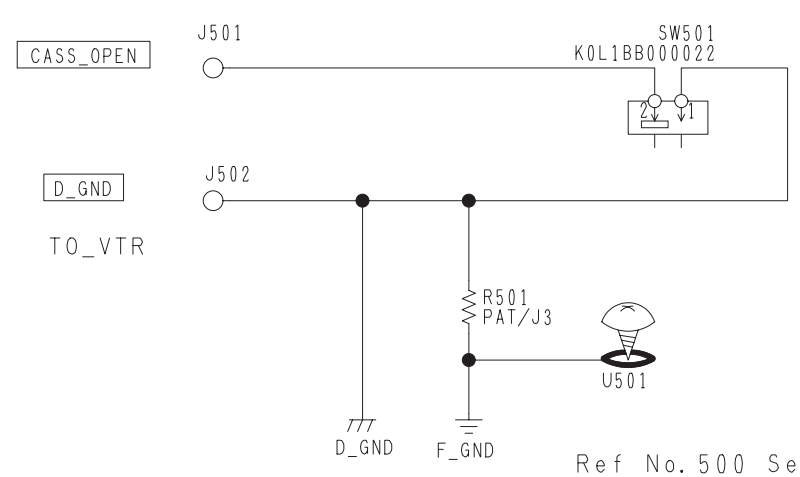
COMPONENT NAME	EVF_A	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28272B	KR8840 (1/1)	
	SCM034	



COMPONENT NAME	LCD_OPEN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E1A	KR0A0071 (1/1)	
	SCM034	



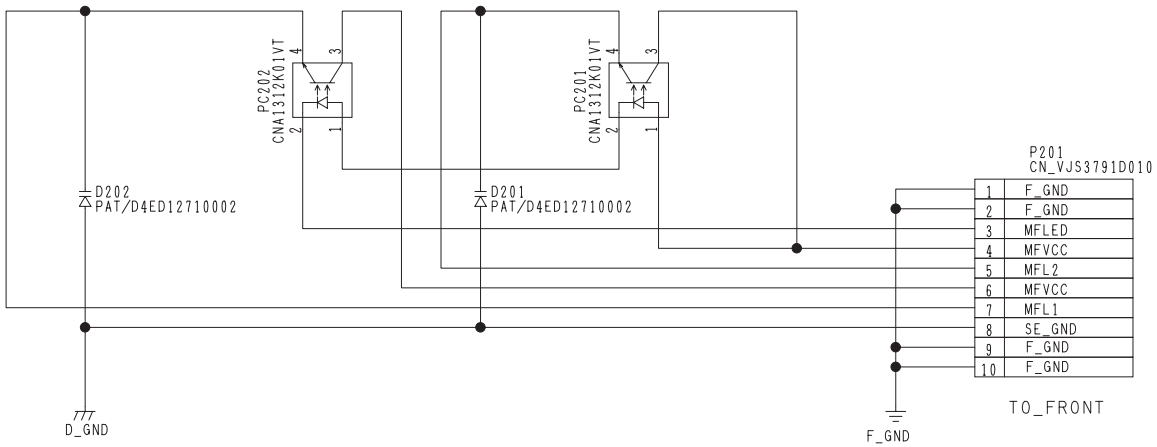
COMPONENT NAME	EVF_B	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28275B	KR8841 (1/1)	
	SCM034	

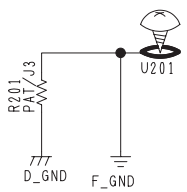


COMPONENT NAME	CAS_OPEN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E5A	KR0A0075 (1/1)	
	SCM034	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



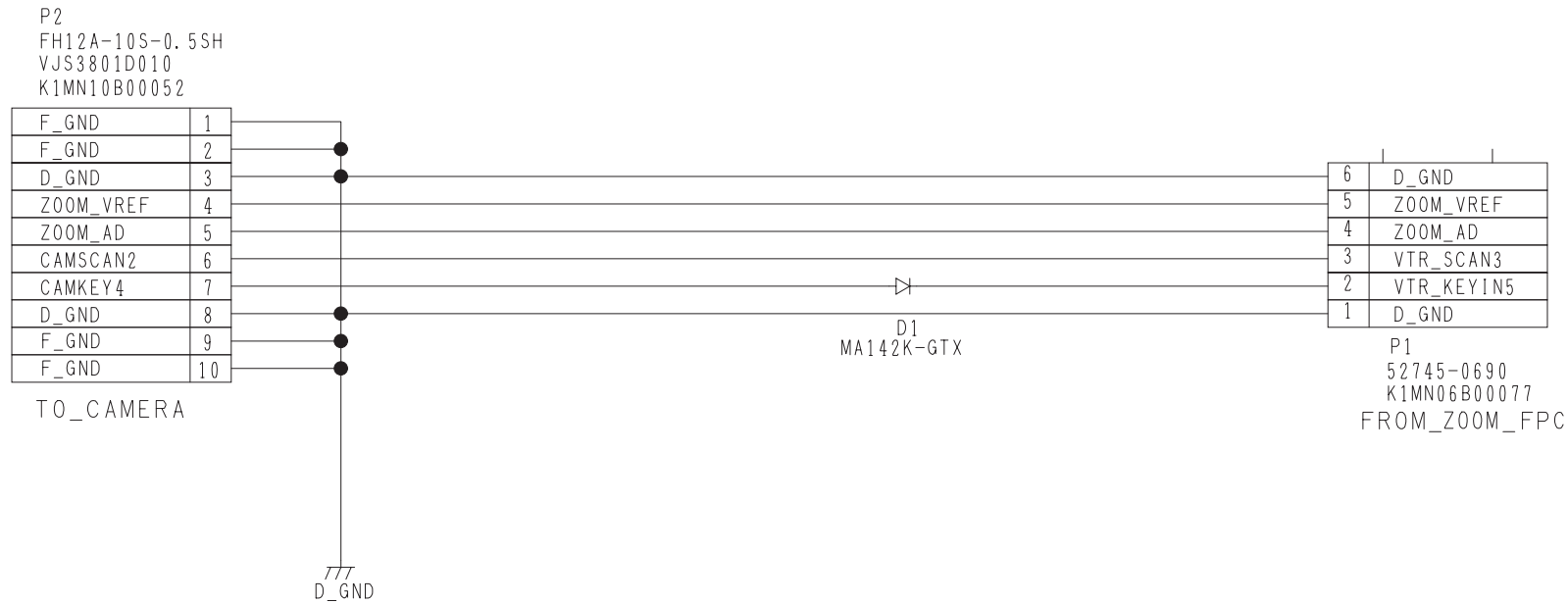


Ref No. 200 Series

COMPONENT NAME	MF FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001E2A		KR0A0072 (1/1)
		SCM025

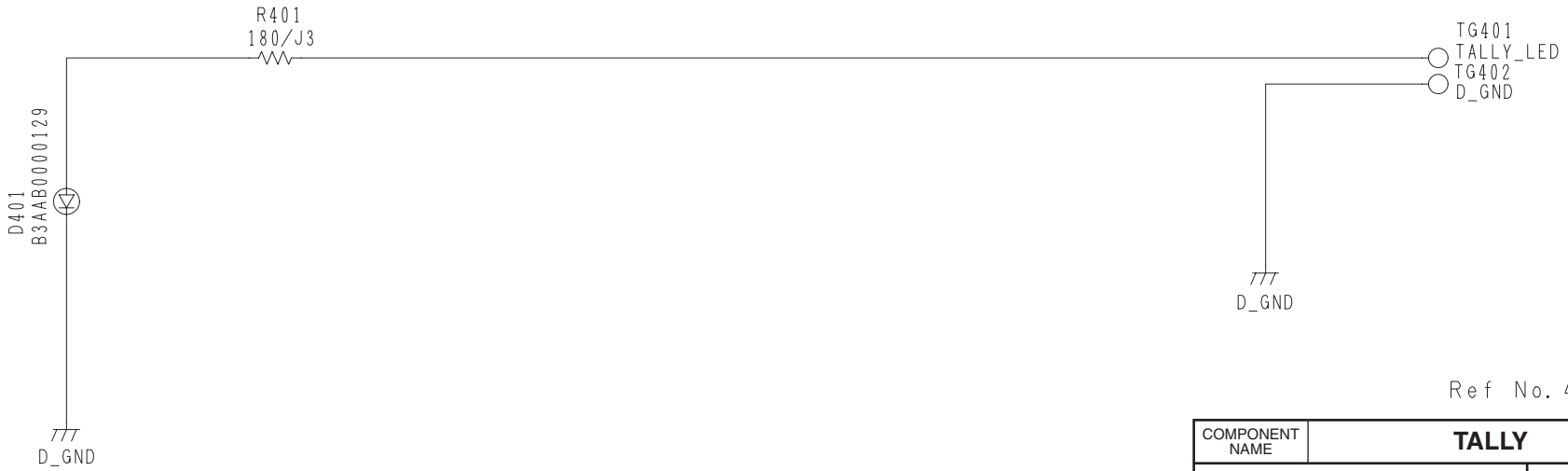
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



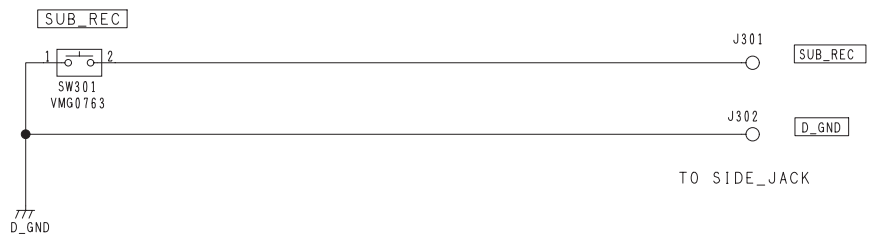
Ref No. 000 Series

COMPONENT NAME	ZOOM_CON	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001E3A		KR0A0114 (1/1)
		SCM030



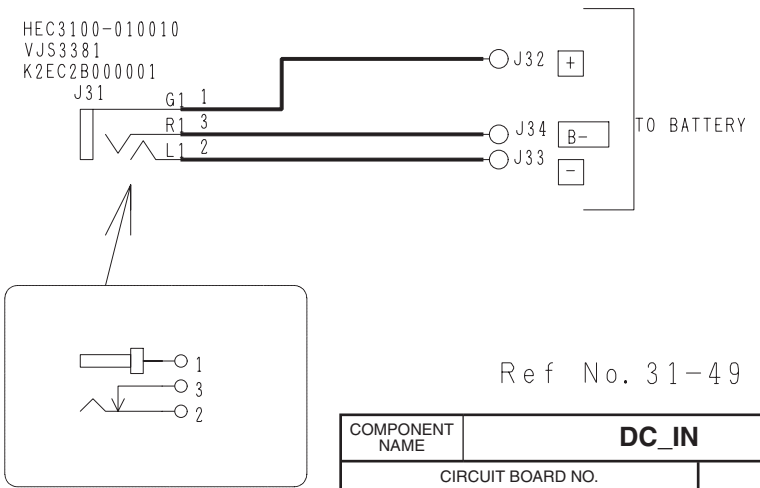
Ref No. 400 Series

COMPONENT NAME	TALLY	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E4A	KR0A0074 (1/1)	
	SCM035	



Ref No. 301 Series

COMPONENT NAME	SUB_REC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G1A	KR0A0147 (1/1)	
	SCM035	

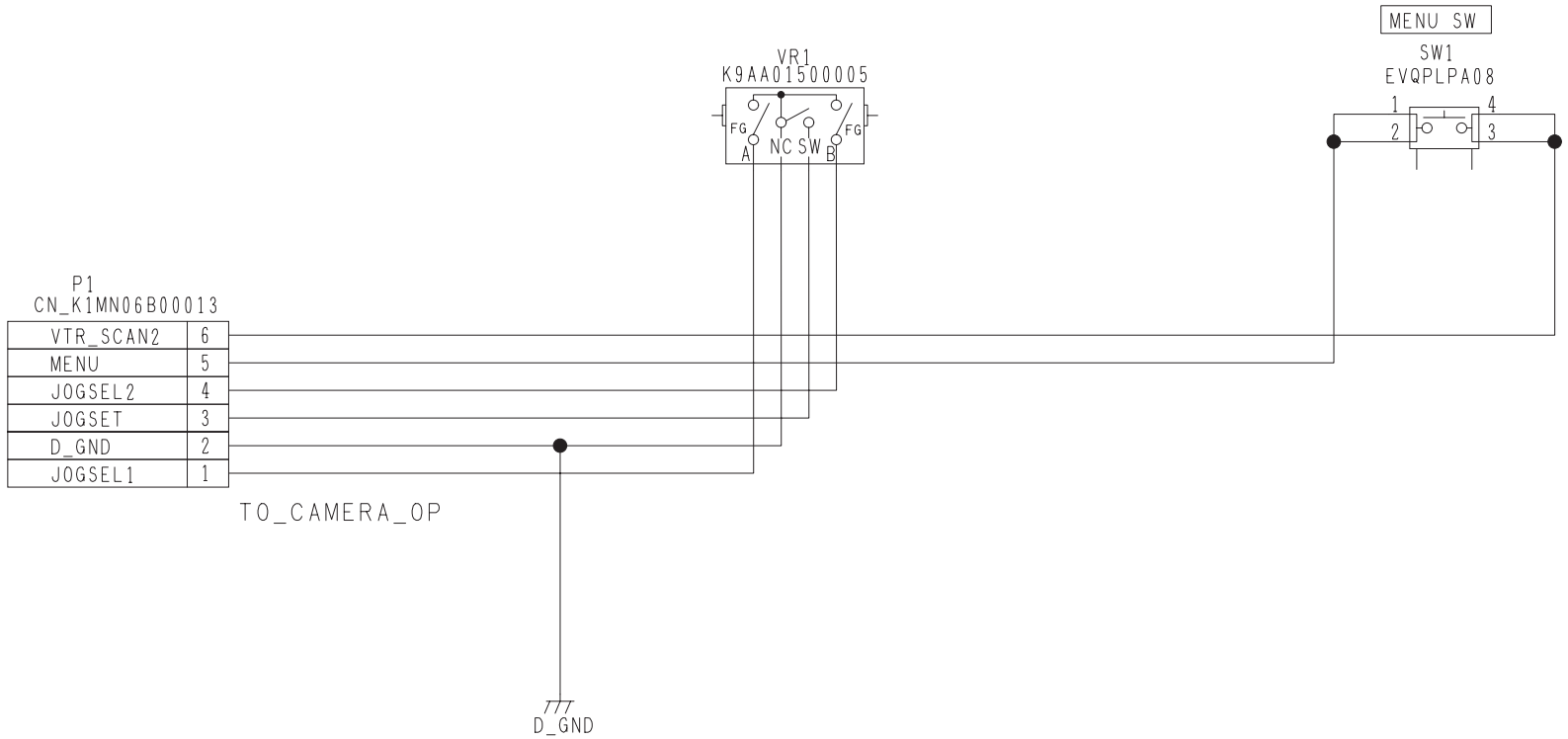


Ref No. 31-49 Series

COMPONENT NAME	DC_IN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01957A	KR1A0062 (1/1)	
	SCM035	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

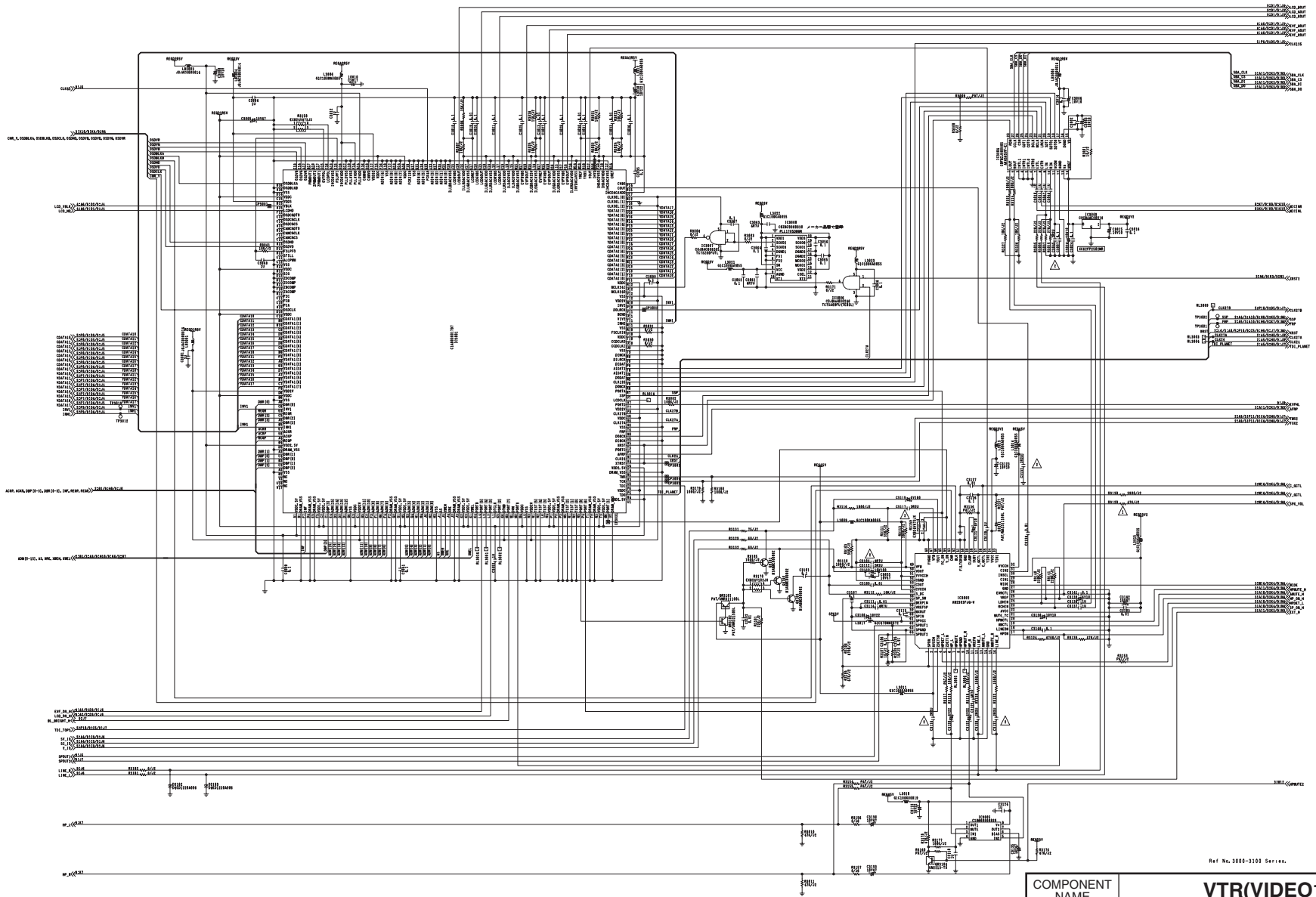


Ref No. 000 Series

COMPONENT NAME	**MENU FPC**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP001G2A		KR0A0148 (1/1)
		SCM023

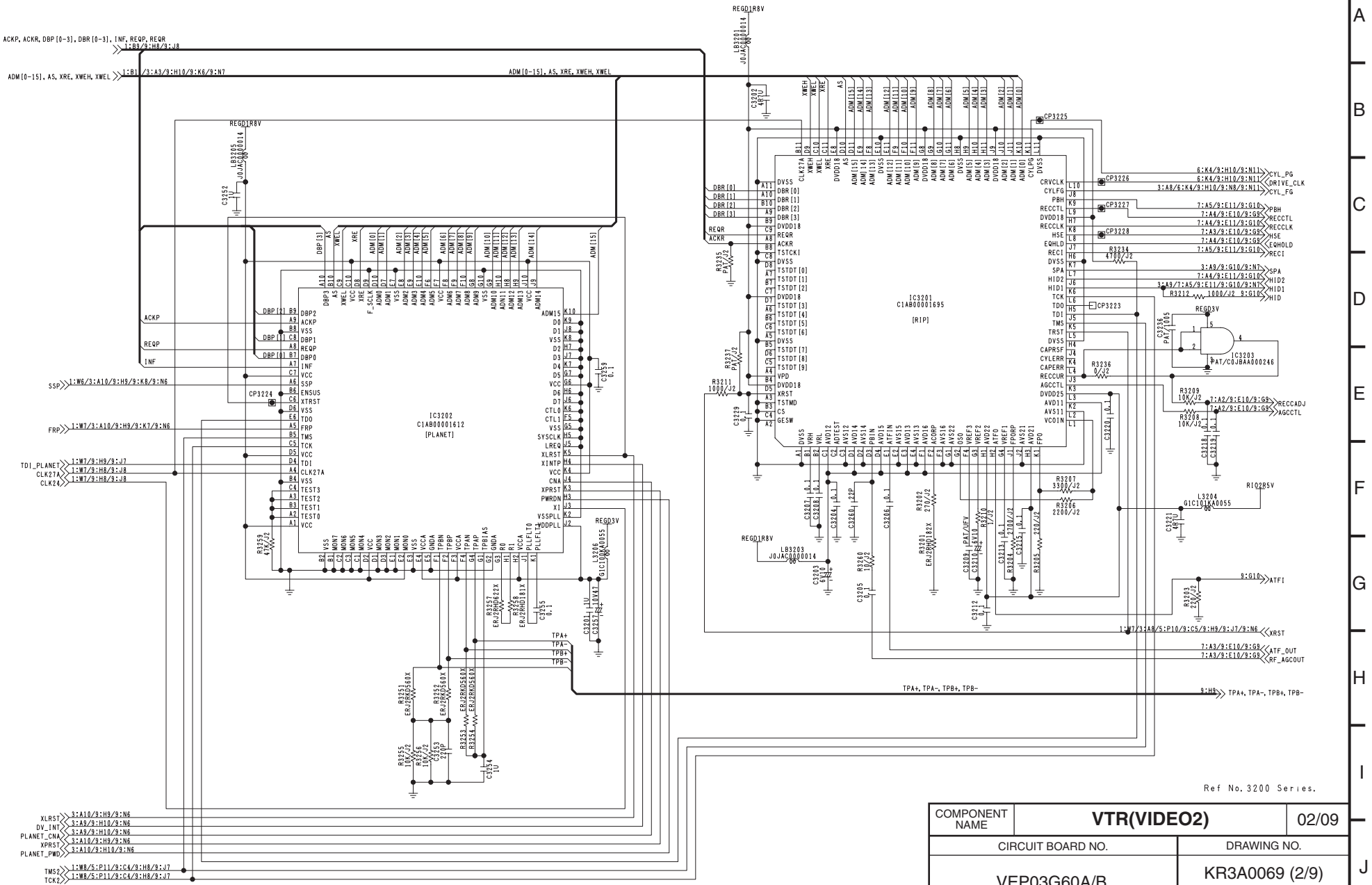
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

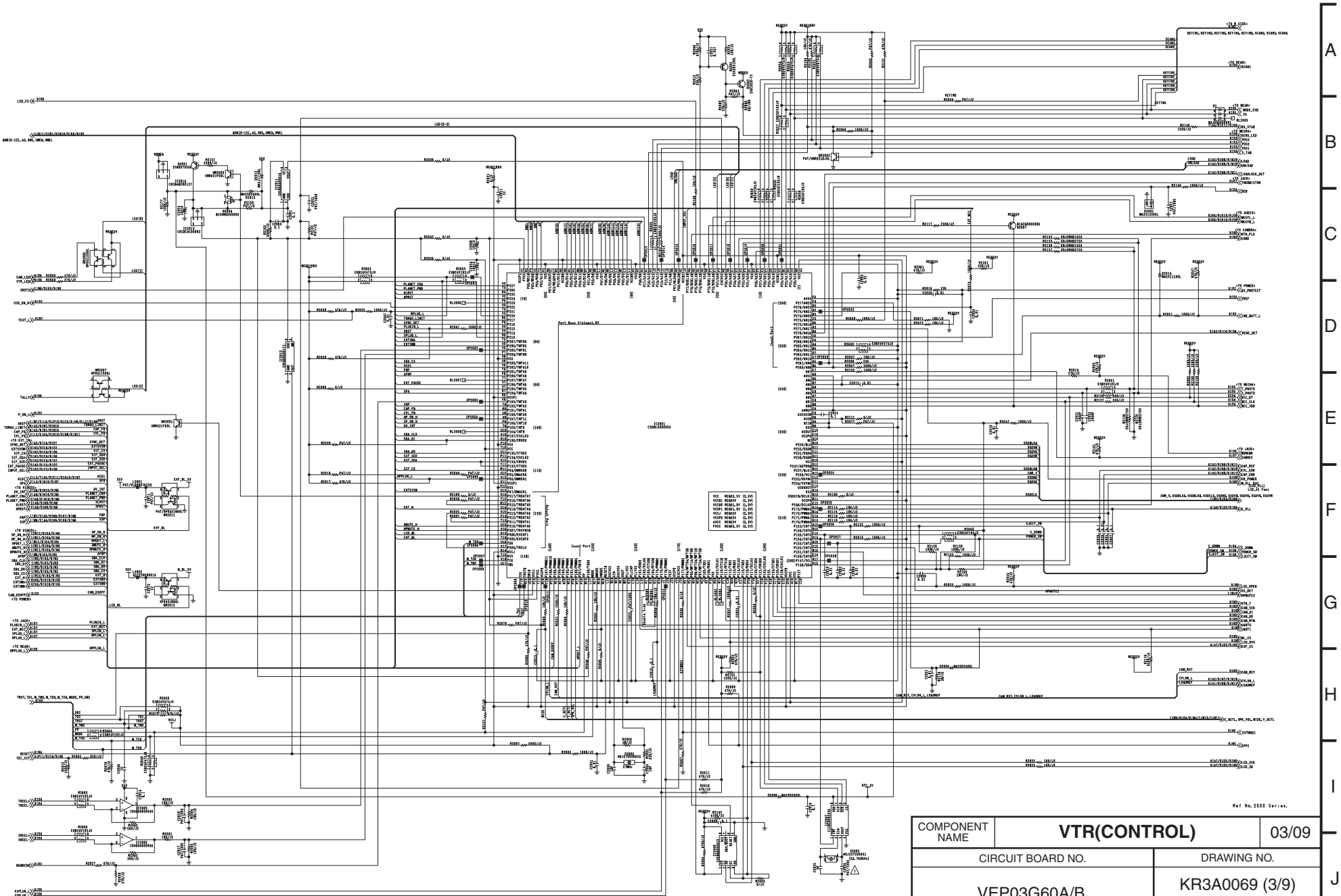


Ref No. 3000-3100 Series.

COMPONENT NAME	VTR(VIDEO1)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (1/9)
		SCM002

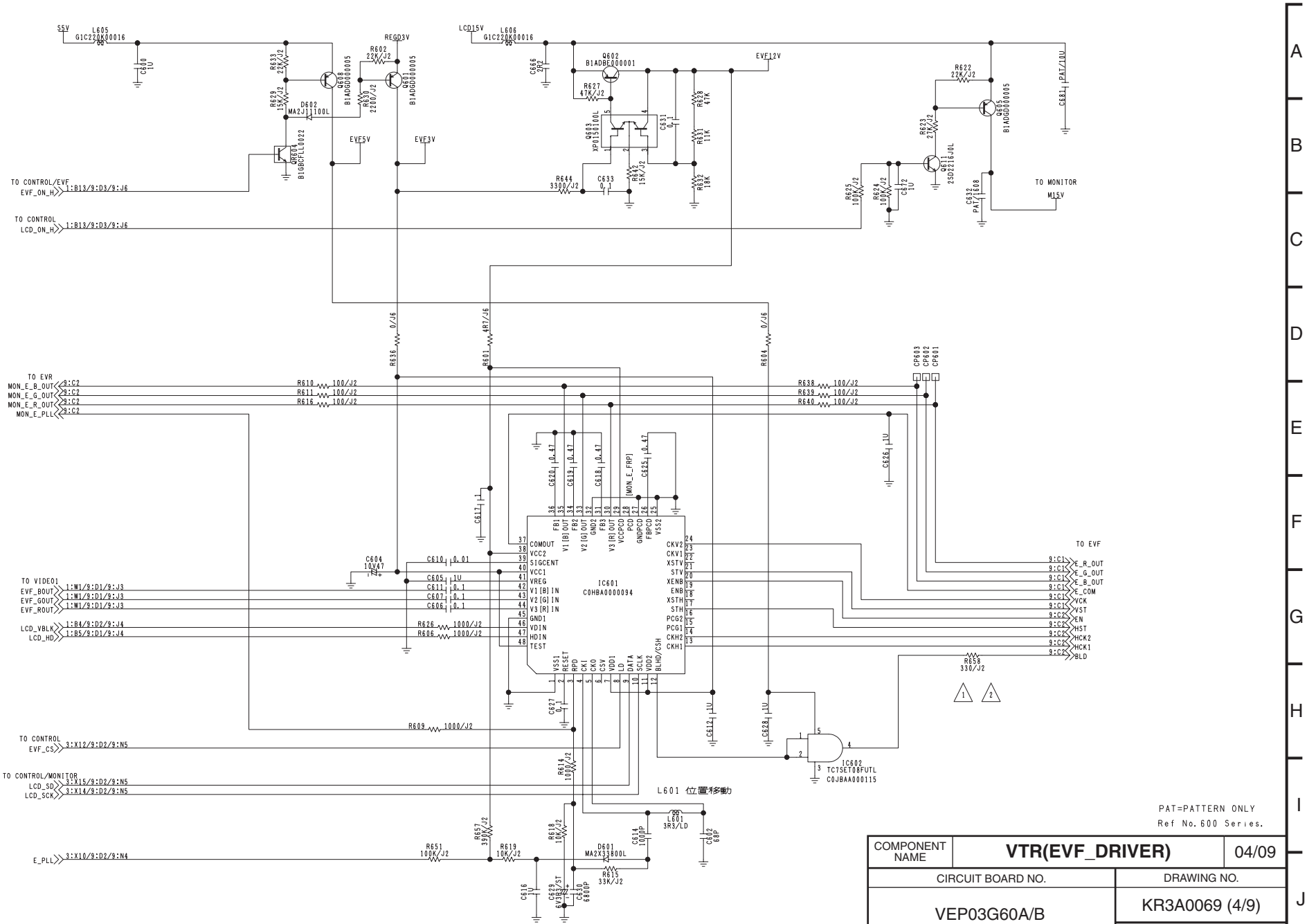


COMPONENT NAME	VTR(VIDEO2)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (2/9)
		SCM003



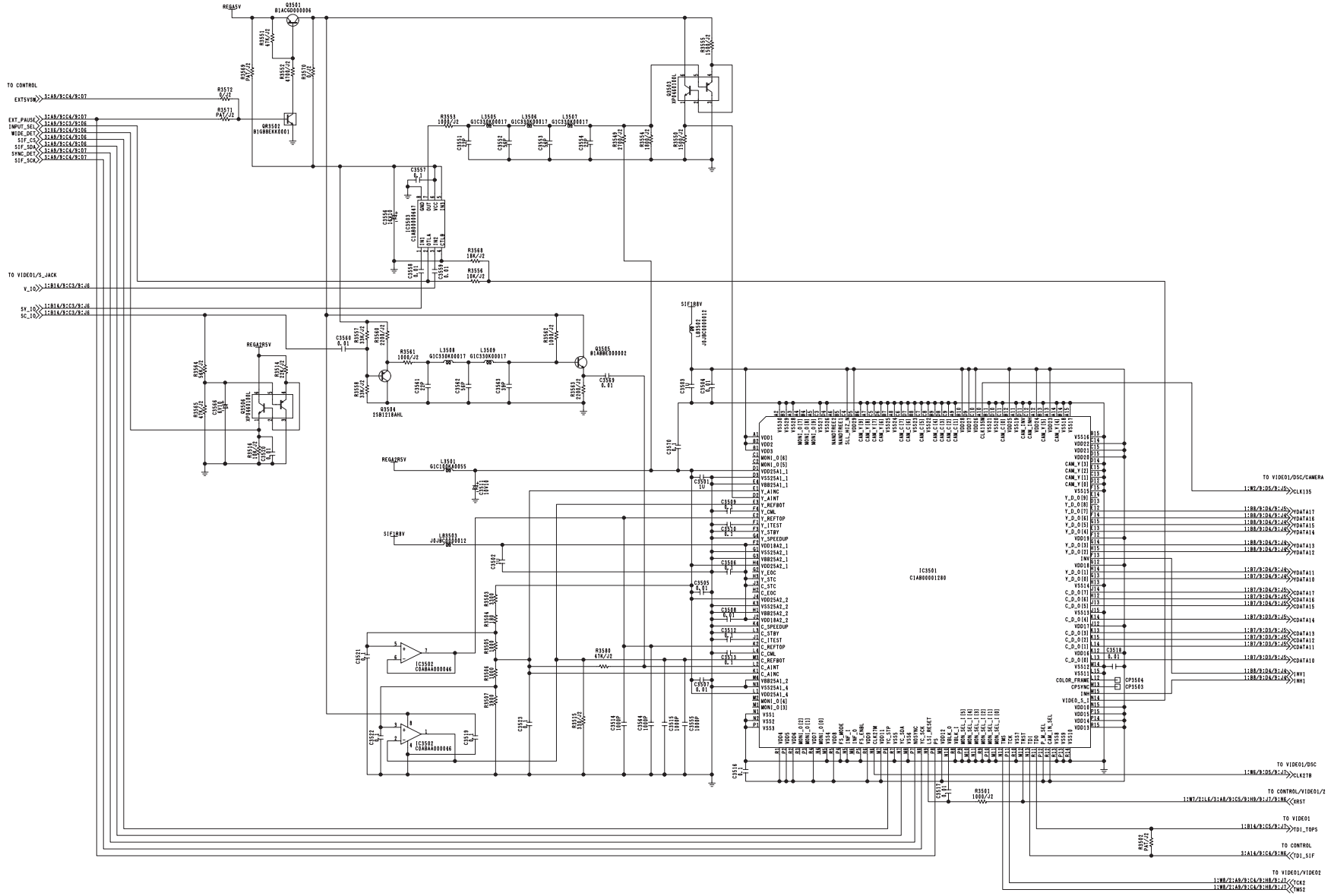
COMPONENT NAME	VTR(CONTROL)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (3/9)
		SCM004

Ref No. 2000 Series.



PAT=PATTERN ONLY
Ref No. 600 Series.

COMPONENT NAME	VTR(EVF_DRIVER)	04/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (4/9)
		SCM005



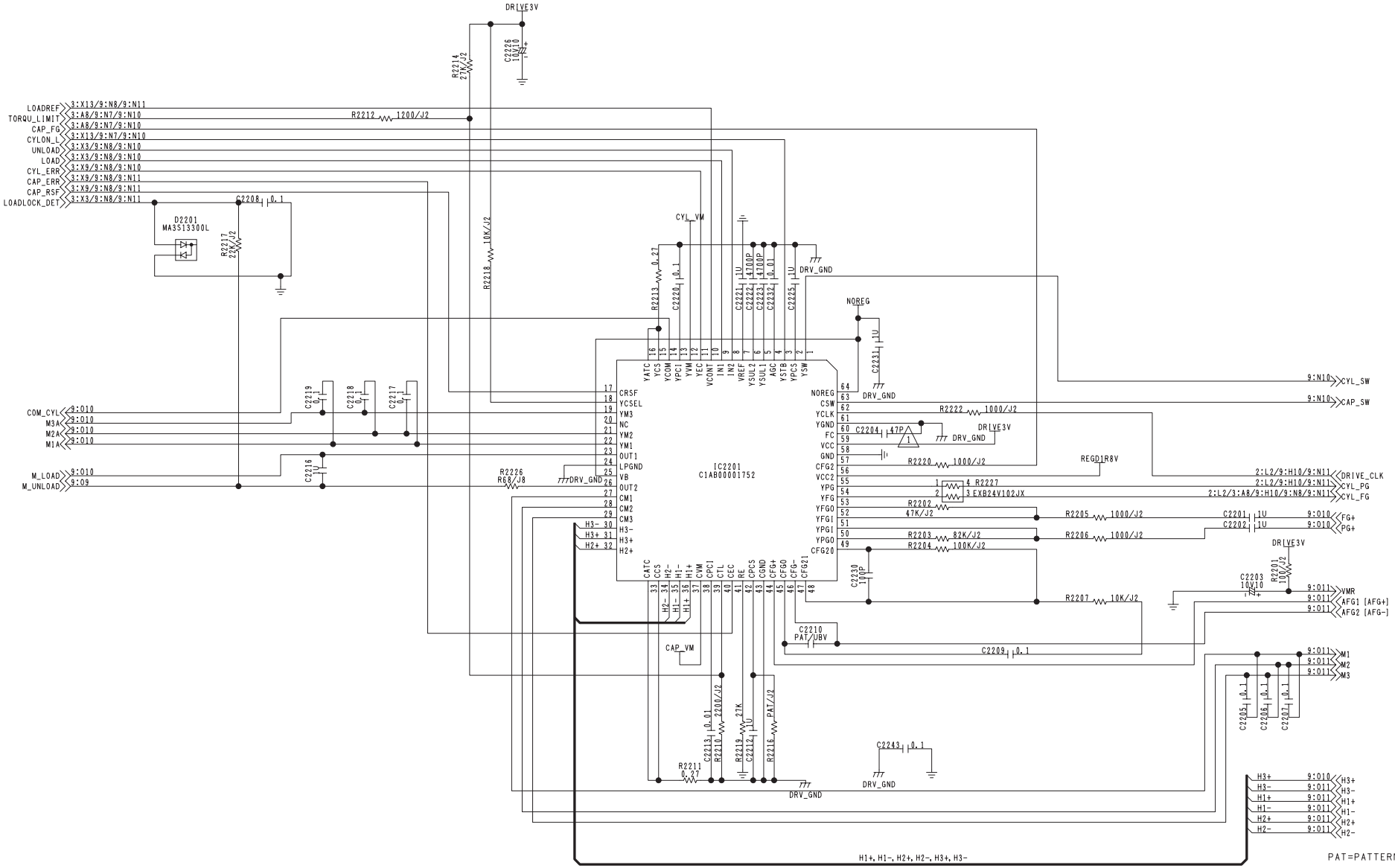
Ref No.	-T,-P,-AN	-E,-MC
C3520	EC/JWB1C103K	PAT
C3566	EC/JWB1C103K	PAT
Q3506	XP4401001L	PAT
R3514	ERJ2GEJ223X	PAT
R3564	ERJ2GEJ563X	PAT
R3565	ERJ2GEJ473X	PAT

PAT=PATTERN ONLY
Ref No.3500 Series.

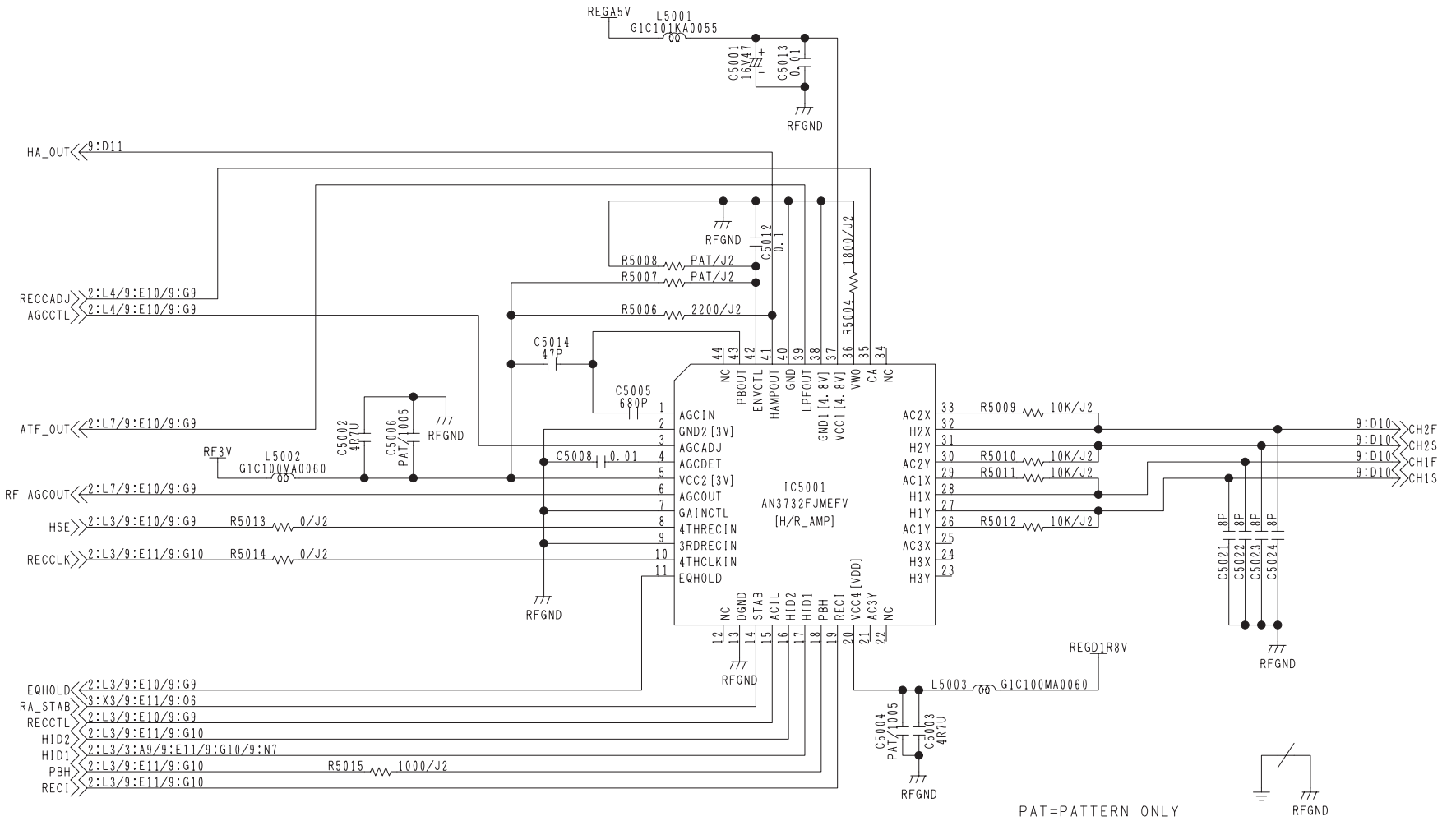
COMPONENT NAME	VTR(EX_INPUT)	05/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (5/9)
		SCM006

A B C D E F G H I J

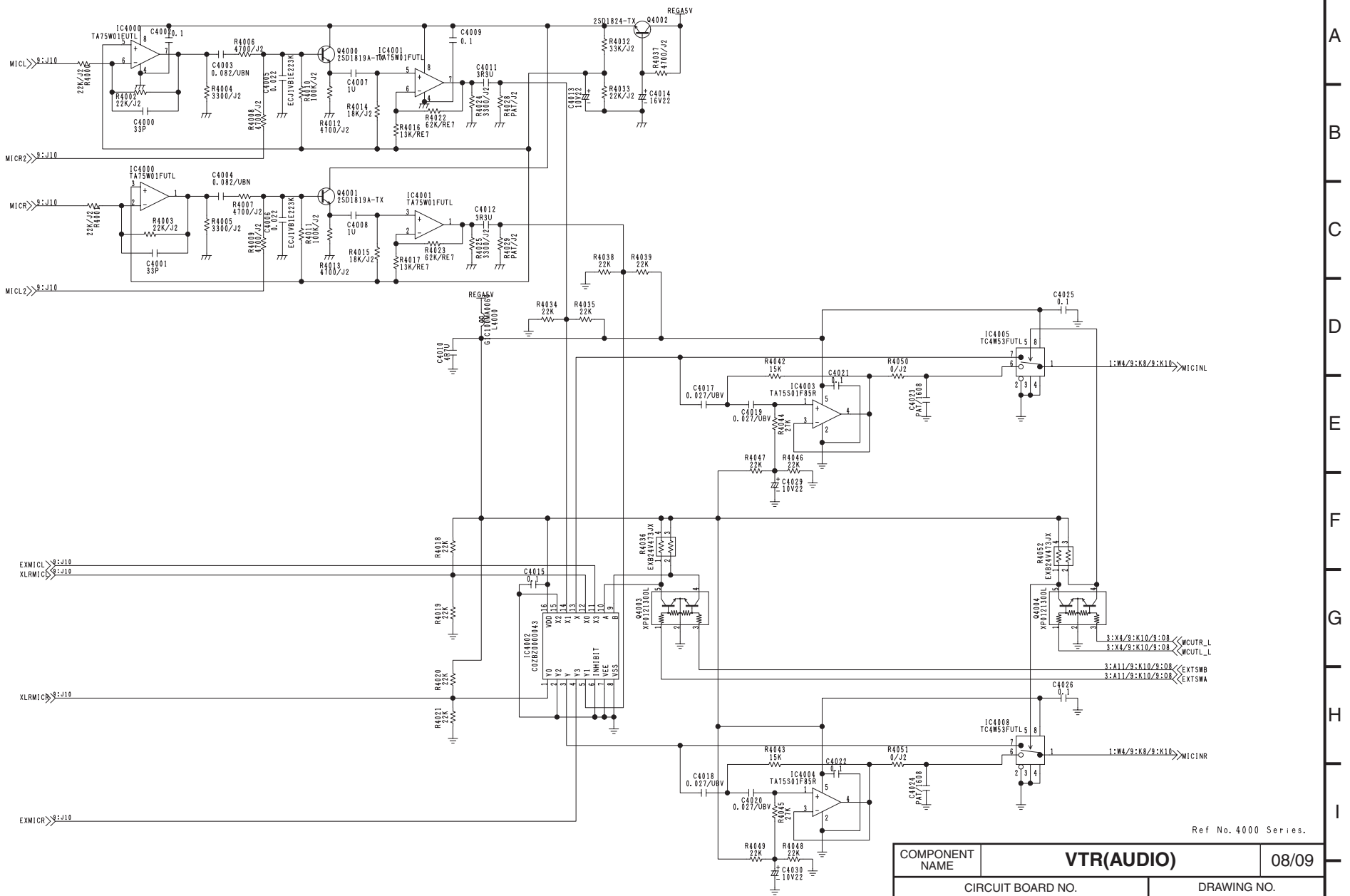
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



COMPONENT NAME	VTR(DRIVE)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (6/9)
		SCM007

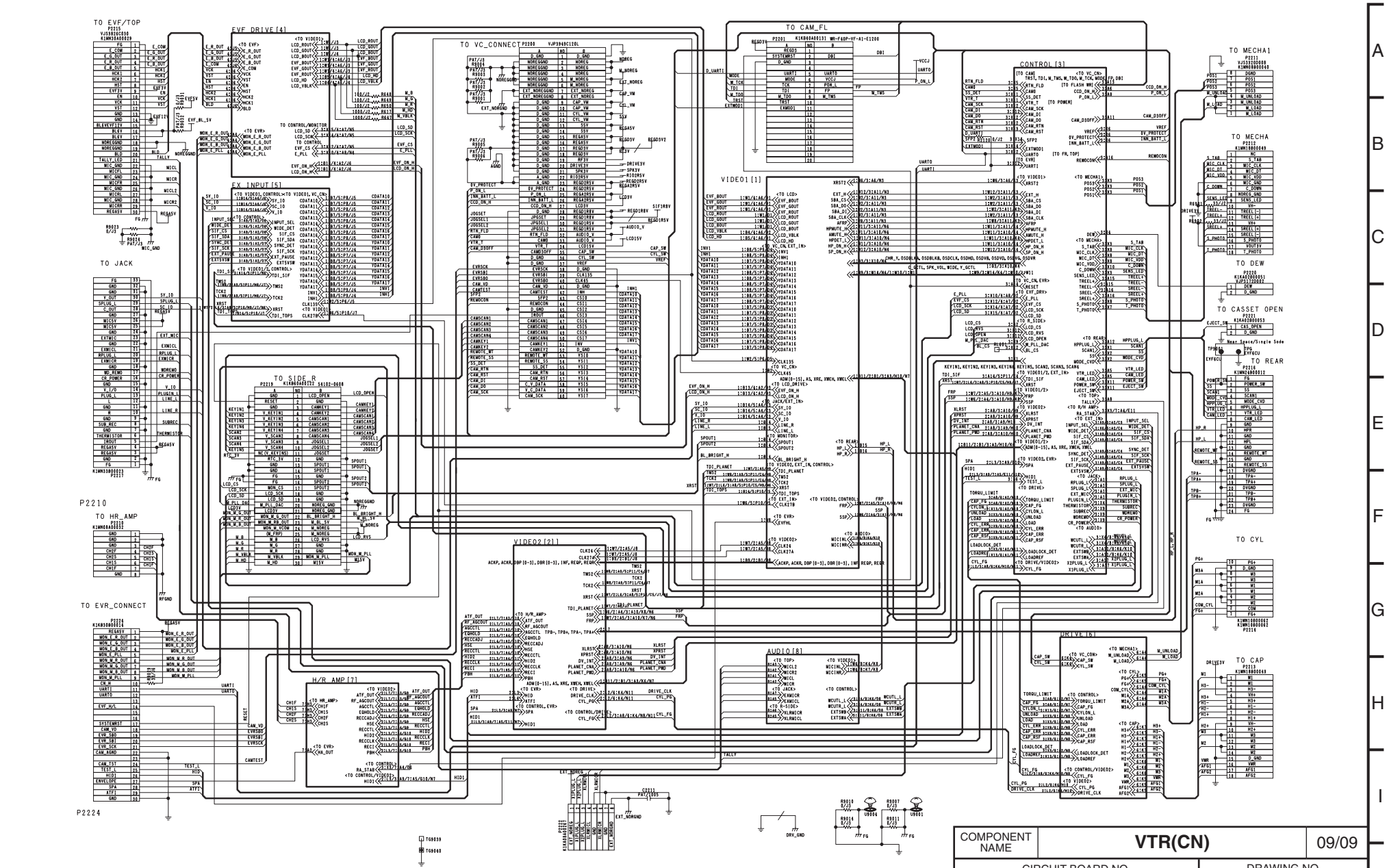


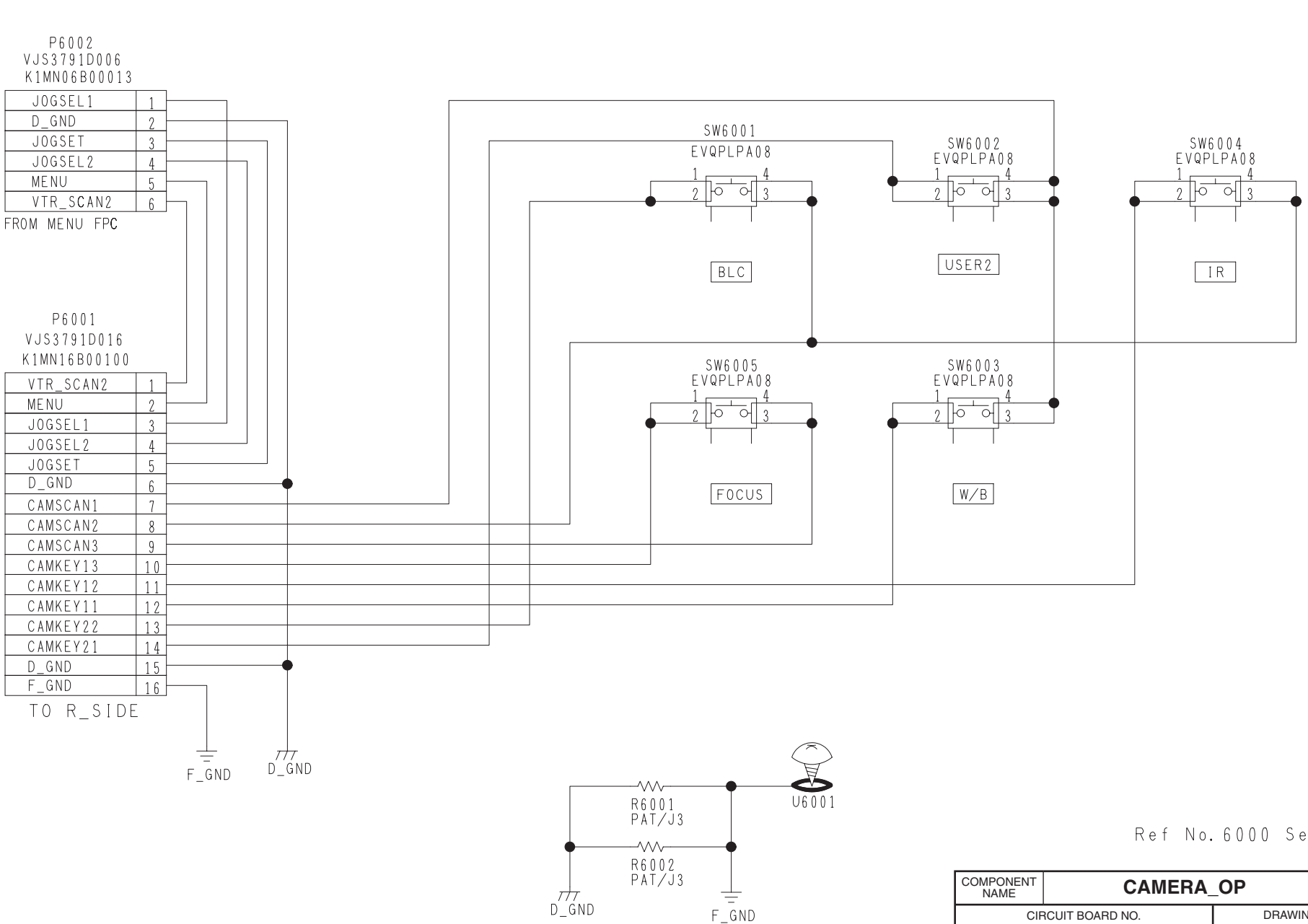
COMPONENT NAME	VTR(HR_AMP)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (7/9)
		SCM008

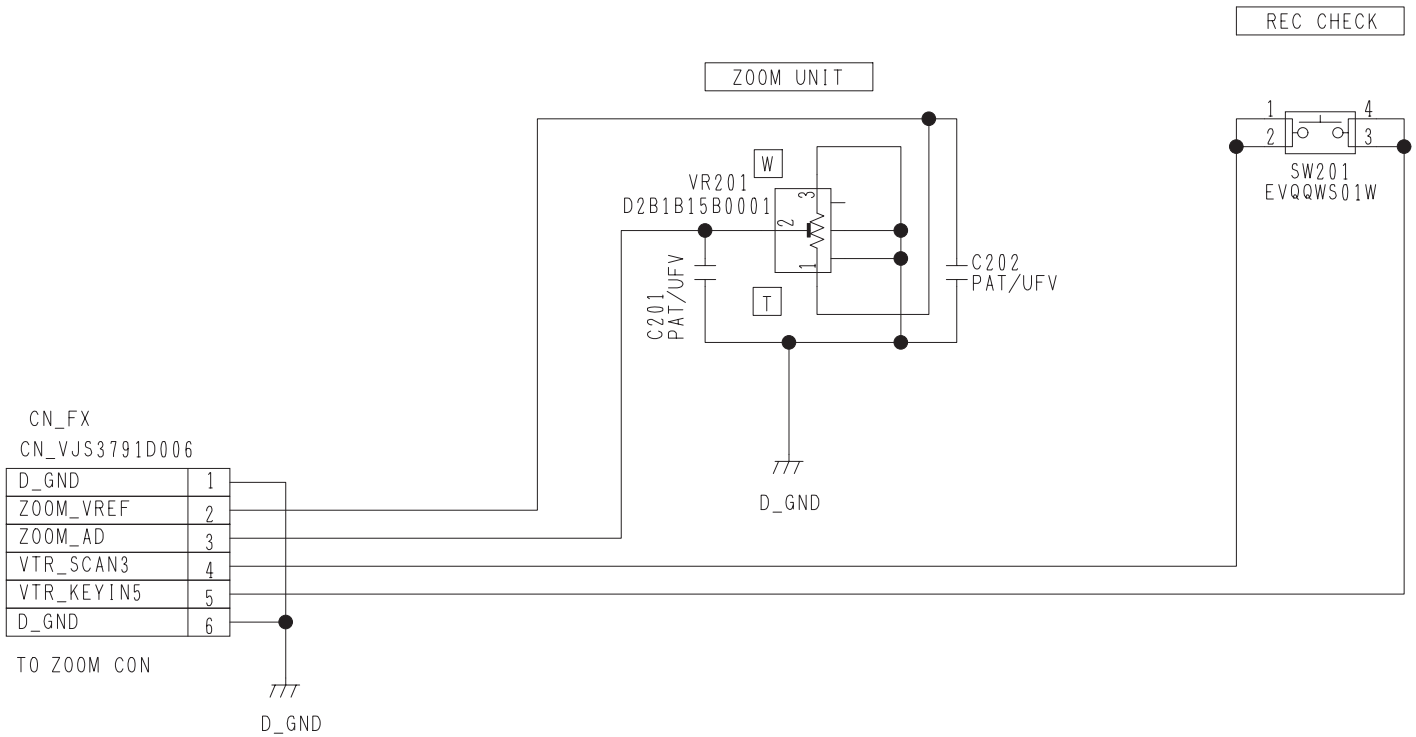


Ref No. 4000 Series.

COMPONENT NAME	VTR(AUDIO)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP03G60A/B		KR3A0069 (8/9)
		SCM009

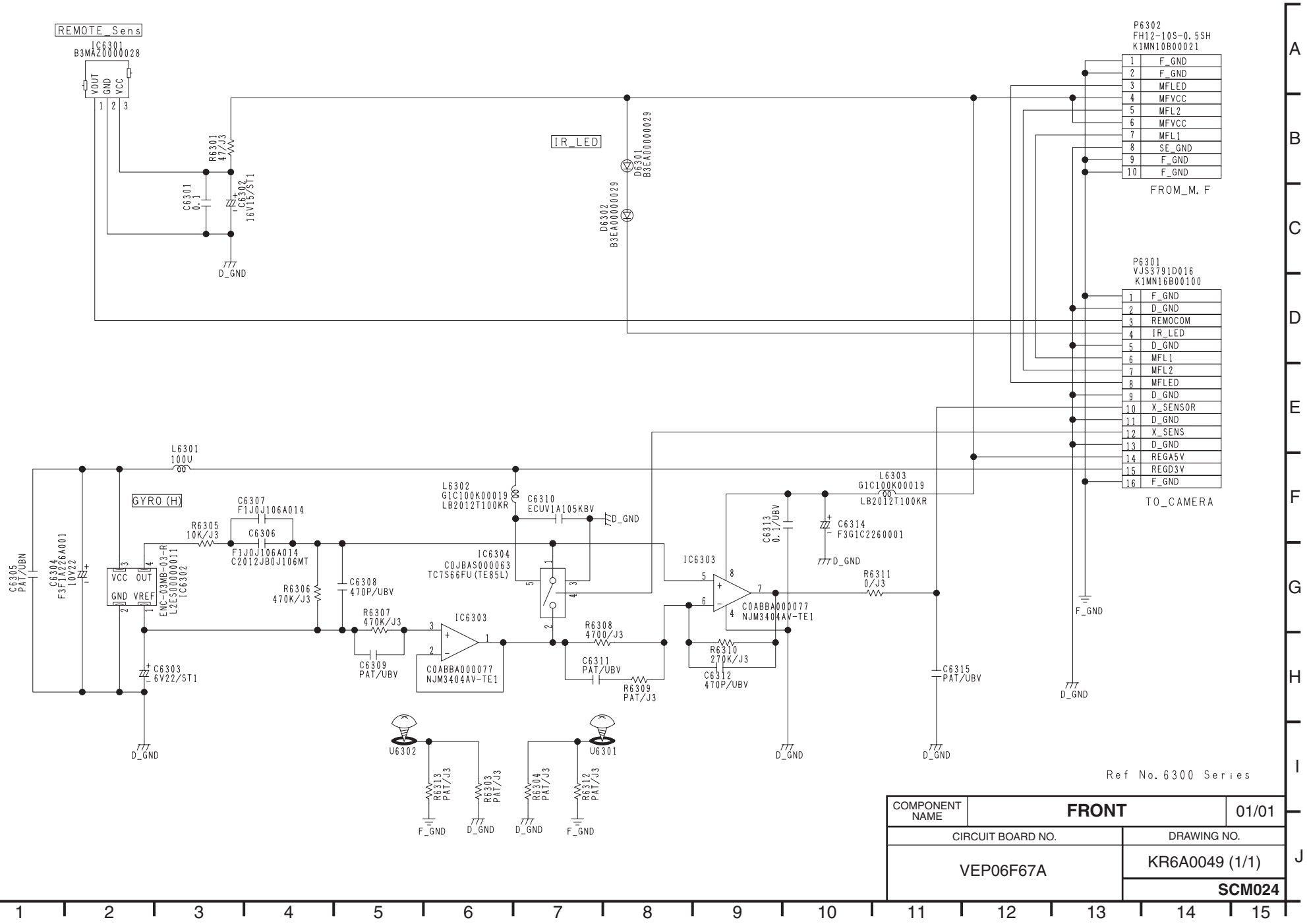

TO EVF/TOP
EVF DRIVE [4]
TO VC_CONNECT
TO CAM_FL
CONTROL [3]
TO MECHA1
TO MECHA
EX INPUT [5]
VIDEO1 [1]
TO DEW
TO CASSET OPEN
TO JACK
TO SIDE_R
TO REAR
TO CYL
TO HR_AMP
VIDEO2 [2]
TO CAP
TO EVR_CONNECT
H/R AMP [7]
AUDIO [8]
DRIVE [6]
P2210
P2224
COMPONENT NAME
VTR(CN)
09/09
CIRCUIT BOARD NO.
VEP03G60A/B
DRAWING NO.
KR3A0069 (9/9)
SCM010

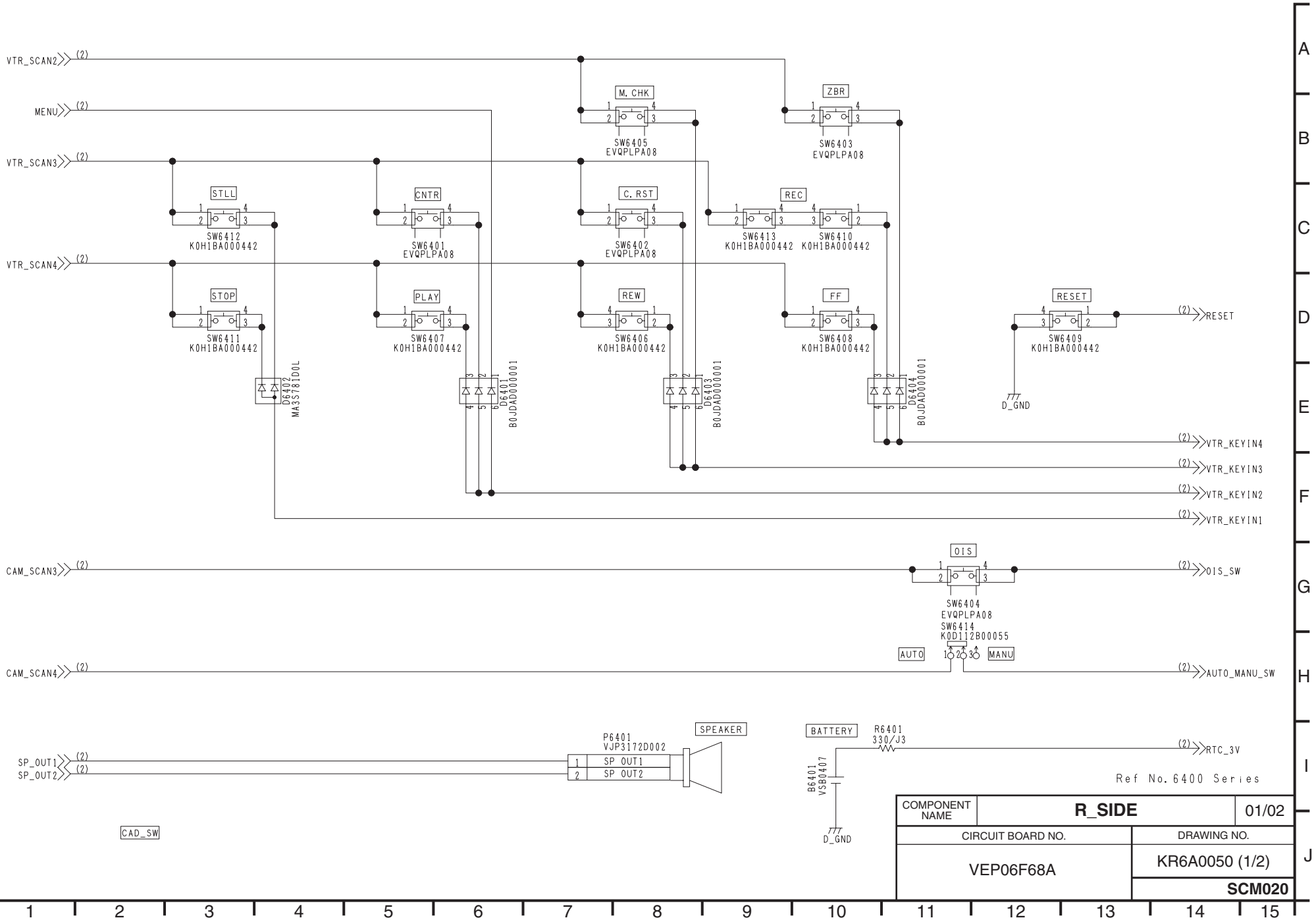

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K1MN06B00013
JOGSEL1 1
D_GND 2
JOGSET 3
JOGSEL2 4
MENU 5
VTR_SCAN2 6
FROM MENU FPC
P6001
VJS3791D016
K1MN16B00100
VTR_SCAN2 1
MENU 2
JOGSEL1 3
JOGSEL2 4
JOGSET 5
D_GND 6
CAMSCAN1 7
CAMSCAN2 8
CAMSCAN3 9
CAMKEY13 10
CAMKEY12 11
CAMKEY11 12
CAMKEY22 13
CAMKEY21 14
D_GND 15
F_GND 16
TO R_SIDE
F_GND
D_GND
SW6001
EVQPLPA08
BLC
SW6002
EVQPLPA08
USER2
SW6004
EVQPLPA08
IR
SW6005
EVQPLPA08
FOCUS
SW6003
EVQPLPA08
W/B
R6001
PAT/J3
R6002
PAT/J3
U6001
D_GND
F_GND
Ref No. 6000 Series
COMPONENT NAME
CAMERA_OP
01/01
CIRCUIT BOARD NO.
VEP06F64A
DRAWING NO.
KR6A0046 (1/1)
SCM022



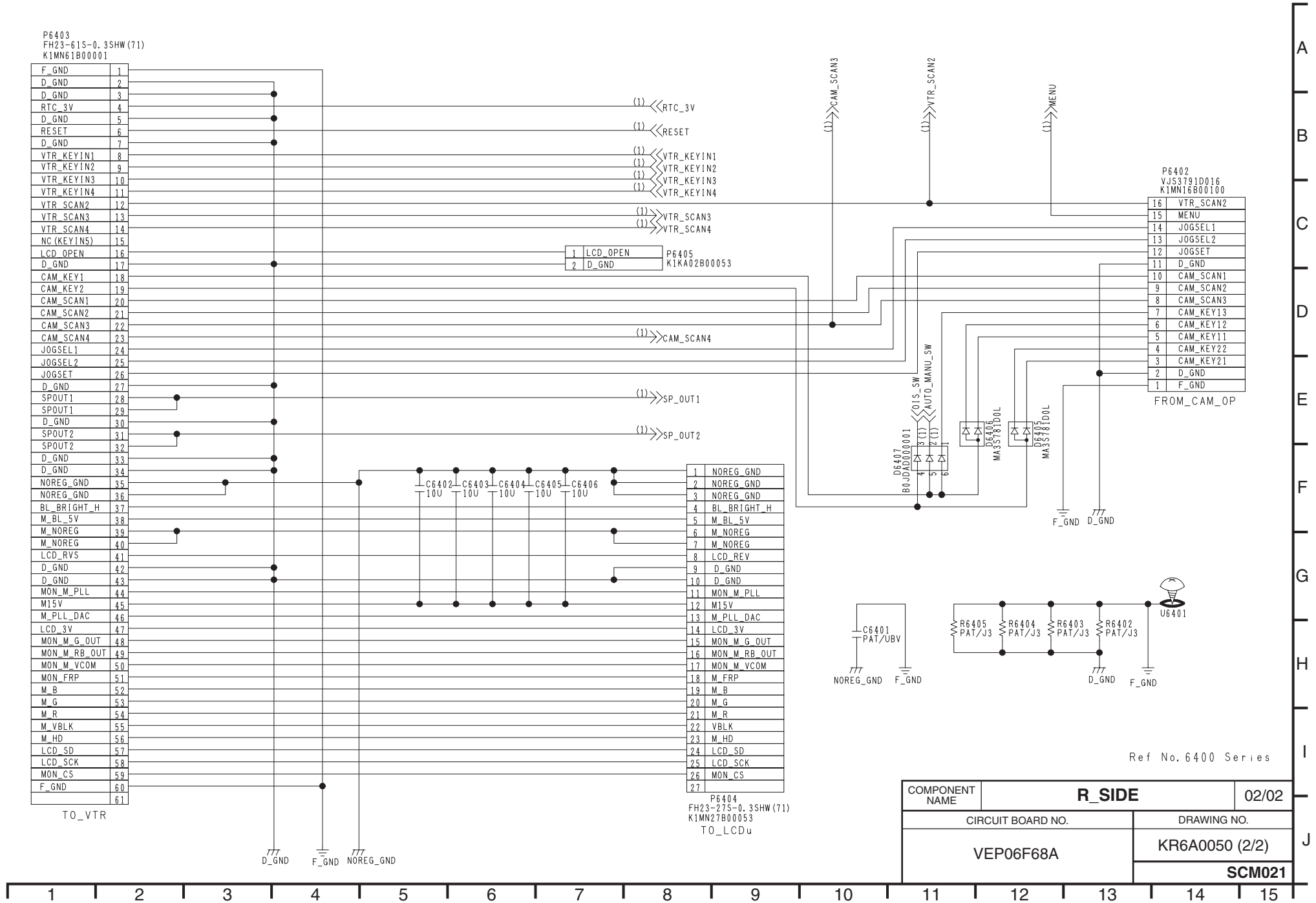
Ref No. 201-250 Series.

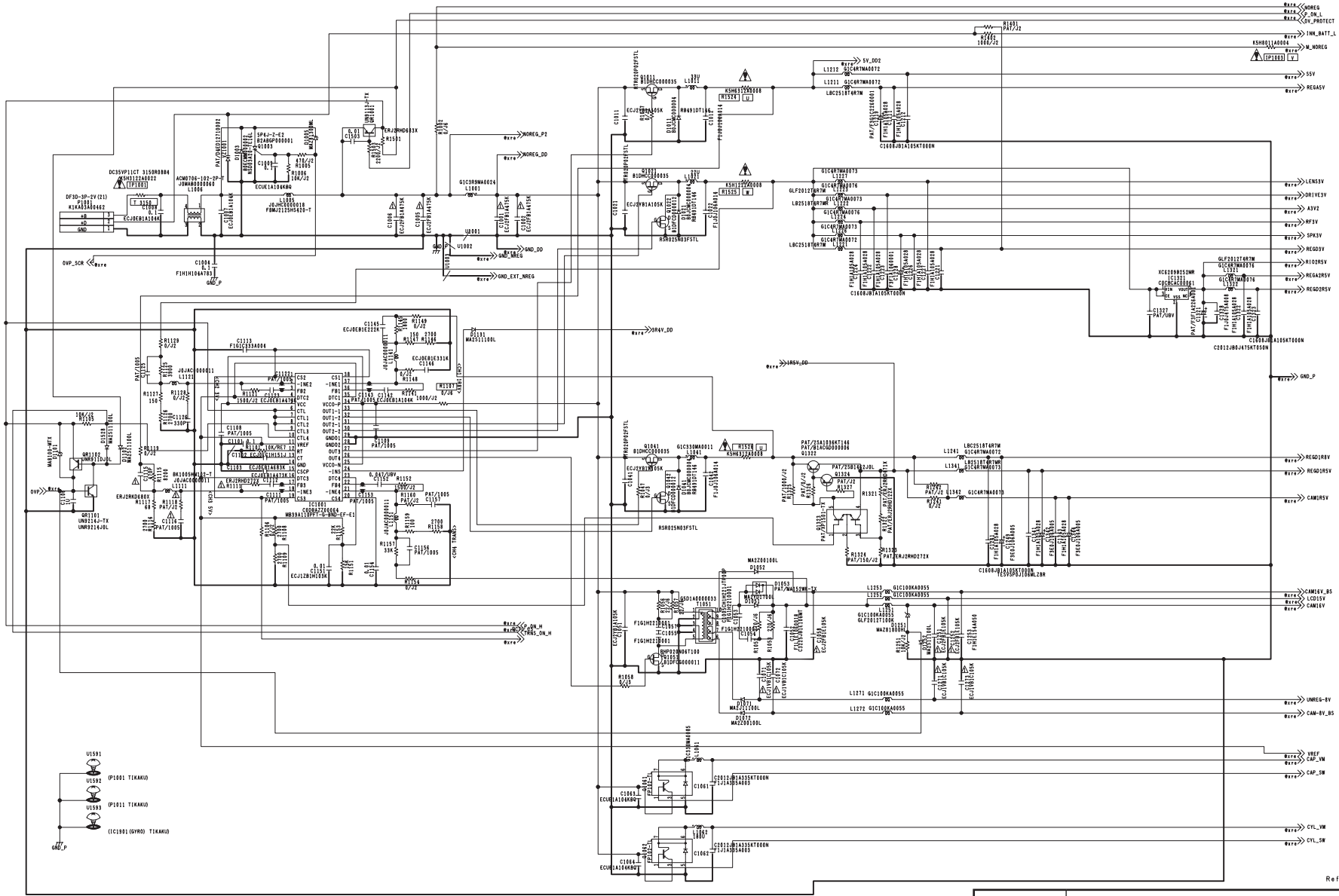
COMPONENT NAME	ZOOM FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F66A		KR6A0090 (1/1)
		SCM029


REMOTE_Sens
IC6301
B3MAZ0000028
VOUT GND VCC
1 2 3
R6301
47/J3
C6301
0.1
C6302
16V15/ST1
D_GND
IR_LED
D6301
B3EA00000029
D6302
B3EA00000029
P6302
FH12-10S-0.5SH
K1MN10B00021
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
FROM_M. F
P6301
VJS3791D016
K1MN16B00100
1 F_GND
2 D_GND
3 REMOCOM
4 IR_LED
5 D_GND
6 MFL1
7 MFL2
8 MFLED
9 D_GND
10 X_SENSOR
11 D_GND
12 X_SENS
13 D_GND
14 REGA5V
15 REGD3V
16 F_GND
TO_CAMERA
L6301
100U
GYRO(H)
C6307
F1J0J106A014
R6305
10K/J3
C6306
F1J0J106A014
C2012JB0J106MT
C6305
PAT/UBN
C6304
F3F1A2226A001
10V22
VCC OUT
GND VREF
ENC-03MB-03-R
L2ES00000011
IC6302
R6306
470K/J3
C6308
470P/UBV
R6307
470K/J3
C6309
PAT/UBV
C6303
6V22/ST1
D_GND
L6302
G1C100K00019
LB2012T100KR
C6310
ECUV1A105KBV
D_GND
IC6304
C0JBAS000063
TC7S66FU(TE85L)
IC6303
C0ABBA000077
NJM3404AV-TE1
R6308
4700/J3
C6311
PAT/UBV
R6309
PAT/J3
IC6303
C0ABBA000077
NJM3404AV-TE1
R6310
270K/J3
C6312
470P/UBV
C6313
0.1/UBV
L6303
G1C100K00019
LB2012T100KR
C6314
F3G1C2260001
D_GND
R6311
0/J3
C6315
PAT/UBV
D_GND
D_GND
F_GND
D_GND
U6302
U6301
R6313
PAT/J3
R6303
PAT/J3
R6304
PAT/J3
R6312
PAT/J3
F_GND
D_GND
D_GND
F_GND
Ref No. 6300 Series
COMPONENT NAME
FRONT
01/01
CIRCUIT BOARD NO.
VEP06F67A
DRAWING NO.
KR6A0049 (1/1)
SCM024
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



COMPONENT NAME	R_SIDE	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F68A		KR6A0050 (1/2)
		SCM020


P6403
FH23-61S-0.3SHW(71)
K1MN61B00001
F_GND 1
D_GND 2
D_GND 3
RTC_3V 4
D_GND 5
RESET 6
D_GND 7
VTR_KEYIN1 8
VTR_KEYIN2 9
VTR_KEYIN3 10
VTR_KEYIN4 11
VTR_SCAN2 12
VTR_SCAN3 13
VTR_SCAN4 14
NC(KEYIN5) 15
LCD_OPEN 16
D_GND 17
CAM_KEY1 18
CAM_KEY2 19
CAM_SCAN1 20
CAM_SCAN2 21
CAM_SCAN3 22
CAM_SCAN4 23
JOGSEL1 24
JOGSEL2 25
JOGSET 26
D_GND 27
SPOUT1 28
SPOUT1 29
D_GND 30
SPOUT2 31
SPOUT2 32
D_GND 33
D_GND 34
NOREG_GND 35
NOREG_GND 36
BL_BRIGHT_H 37
M_BL_5V 38
M_NOREG 39
M_NOREG 40
LCD_RVS 41
D_GND 42
D_GND 43
MON_M_PLL 44
M15V 45
M_PLL_DAC 46
LCD_3V 47
MON_M_G_OUT 48
MON_M_RB_OUT 49
MON_M_VCOM 50
MON_FRP 51
M_B 52
M_G 53
M_R 54
M_VBLK 55
M_HD 56
LCD_SD 57
LCD_SCK 58
MON_CS 59
F_GND 60
61
TO_VTR
(1) RTC_3V
(1) RESET
(1) VTR_KEYIN1
(1) VTR_KEYIN2
(1) VTR_KEYIN3
(1) VTR_KEYIN4
(1) VTR_SCAN3
(1) VTR_SCAN4
1 LCD_OPEN
2 D_GND
P6405
K1KA02B00053
(1) CAM_SCAN4
(1) SP_OUT1
(1) SP_OUT2
C6402 10U
C6403 10U
C6404 10U
C6405 10U
C6406 10U
1 NOREG_GND
2 NOREG_GND
3 NOREG_GND
4 BL_BRIGHT_H
5 M_BL_5V
6 M_NOREG
7 M_NOREG
8 LCD_REV
9 D_GND
10 D_GND
11 MON_M_PLL
12 M15V
13 M_PLL_DAC
14 LCD_3V
15 MON_M_G_OUT
16 MON_M_RB_OUT
17 MON_M_VCOM
18 M_FRP
19 M_B
20 M_G
21 M_R
22 VBLK
23 M_HD
24 LCD_SD
25 LCD_SCK
26 MON_CS
27
P6404
FH23-27S-0.3SHW(71)
K1MN27B00053
TO_LCDu
D_GND
F_GND
NOREG_GND
(1) CAM_SCAN3
(1) VTR_SCAN2
(1) MENU
P6402
VJS3791D016
K1MN16B00100
16 VTR_SCAN2
15 MENU
14 JOGSEL1
13 JOGSEL2
12 JOGSET
11 D_GND
10 CAM_SCAN1
9 CAM_SCAN2
8 CAM_SCAN3
7 CAM_KEY13
6 CAM_KEY12
5 CAM_KEY11
4 CAM_KEY22
3 CAM_KEY21
2 D_GND
1 F_GND
FROM_CAM_OP
D6407
B0JDAD000001
DIS_SW
AUTO_MANU_SW
D6406
MA3S781D0L
D6405
MA3S781D0L
F_GND
D_GND
C6401
PAT/UBV
NOREG_GND
F_GND
R6405 PAT/J3
R6404 PAT/J3
R6403 PAT/J3
R6402 PAT/J3
U6401
D_GND
F_GND
Ref No.6400 Series
COMPONENT NAME
R_SIDE
02/02
CIRCUIT BOARD NO.
VEP06F68A
DRAWING NO.
KR6A0050 (2/2)
SCM021



Ref No. 1000 Series.

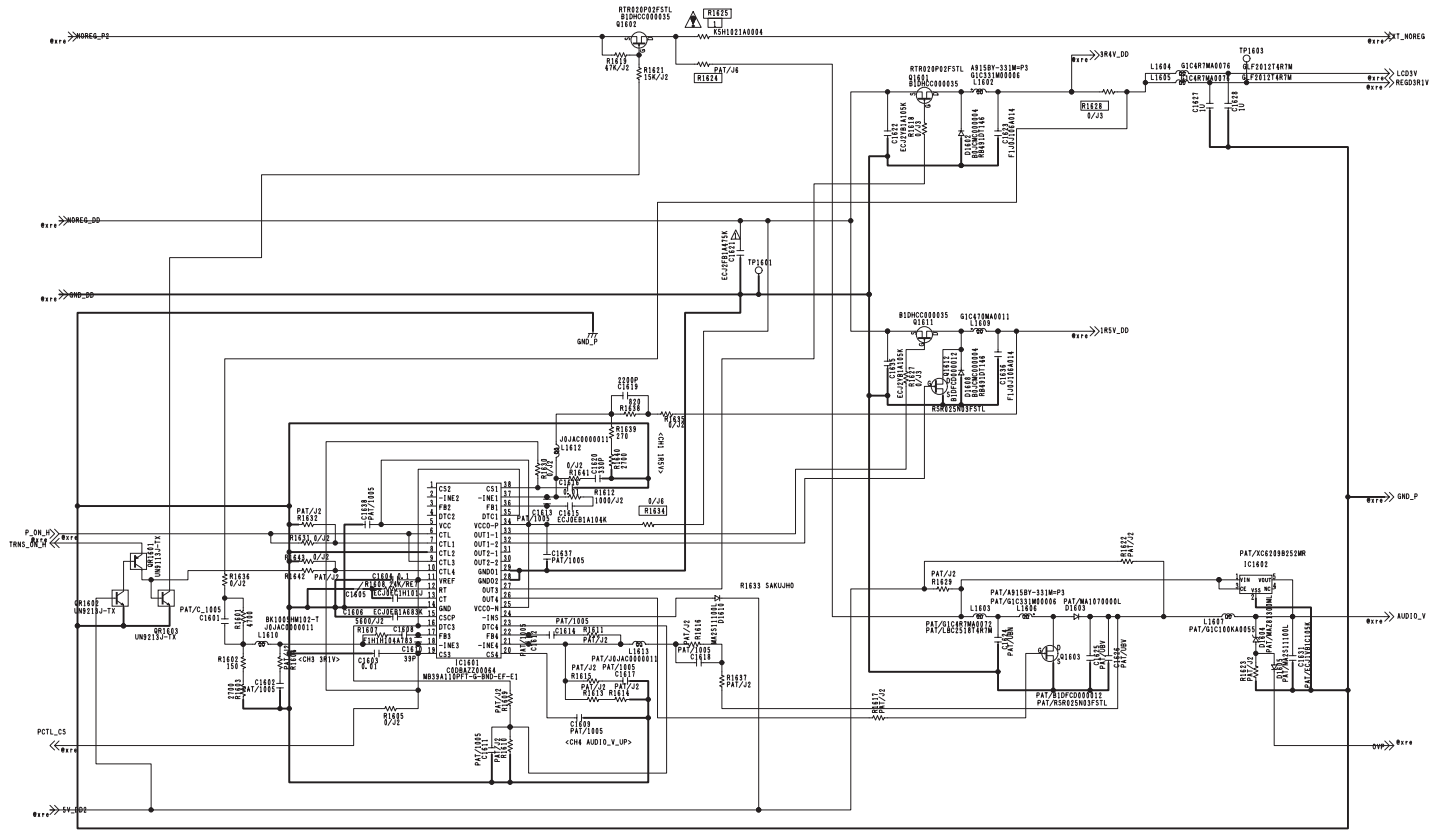
COMPONENT NAME	POWER	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01952A		KR1A0057 (1/2)
		SCM018

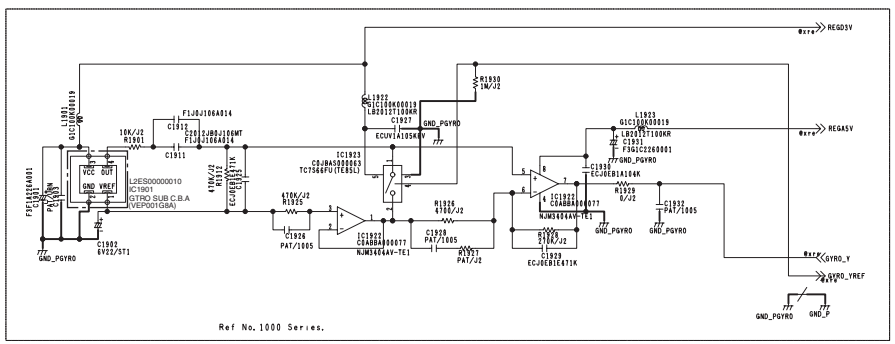
IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

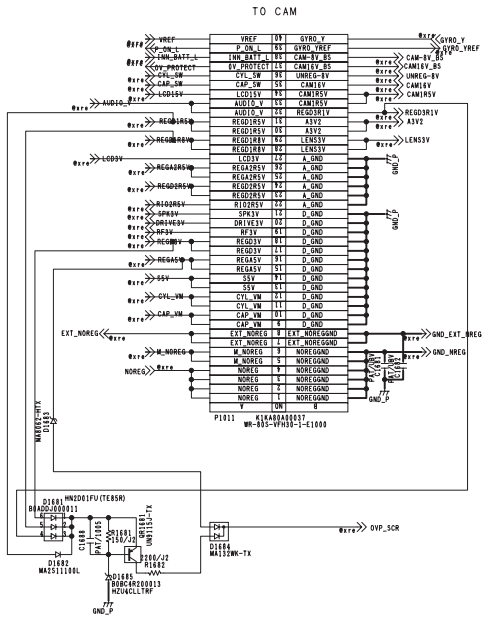
⚠ 警 告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15





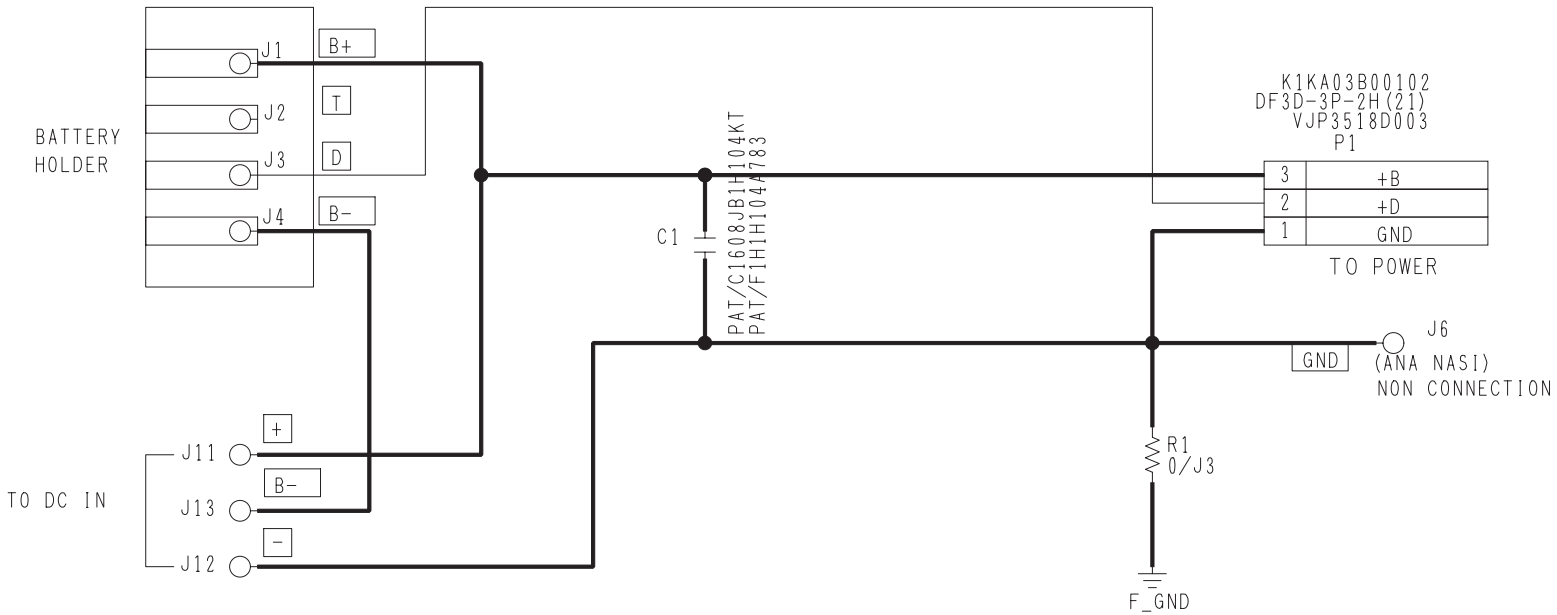


Ref No. 1000 Series.

COMPONENT NAME	**POWER**	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01952A		KR1A0057 (2/2)
		SCM019

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠警告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

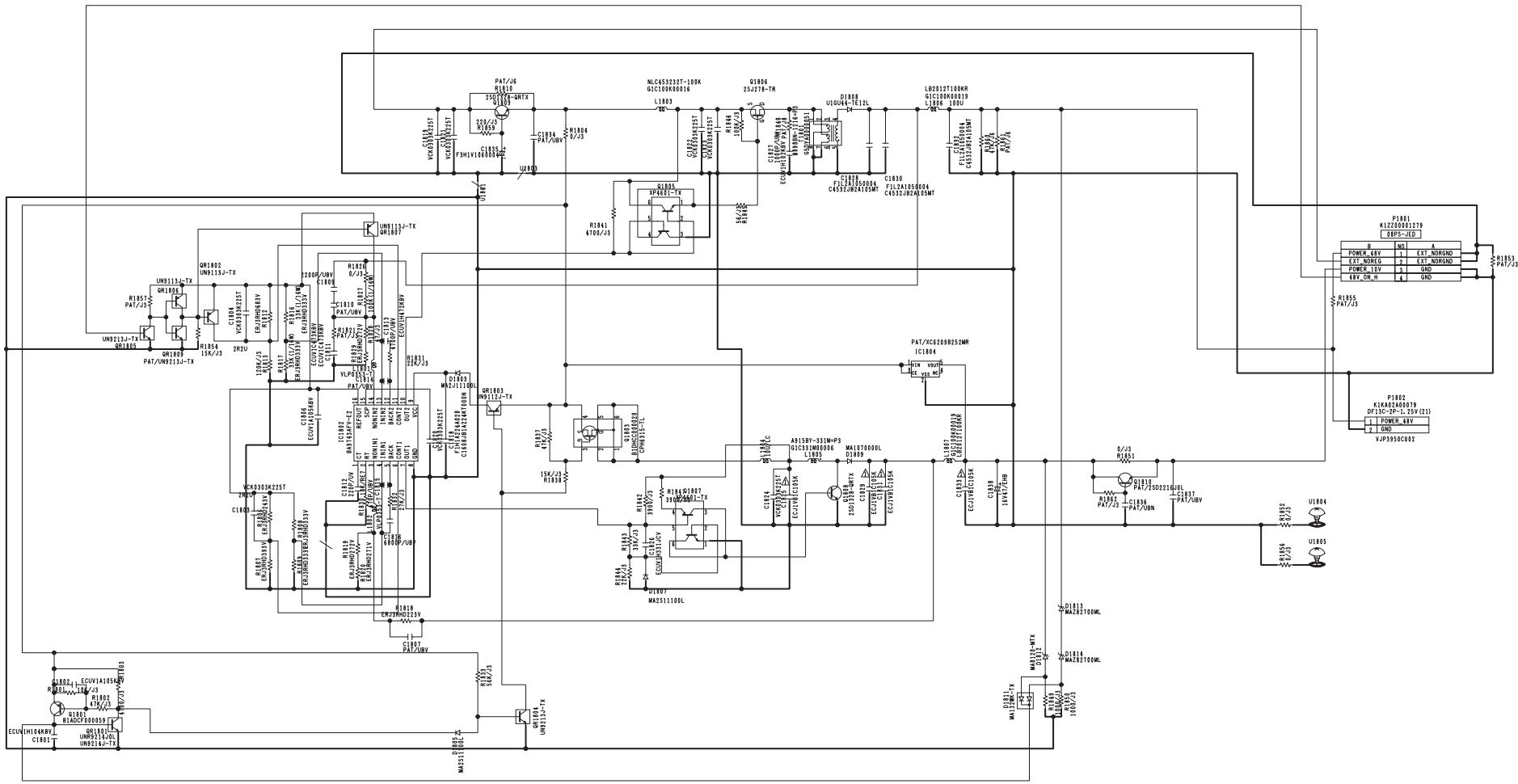


PAT=PATTERN ONLY
Ref No. Series.

COMPONENT NAME	BATTERY	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01953A		KR1A0047 (1/1)
		SCM028

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

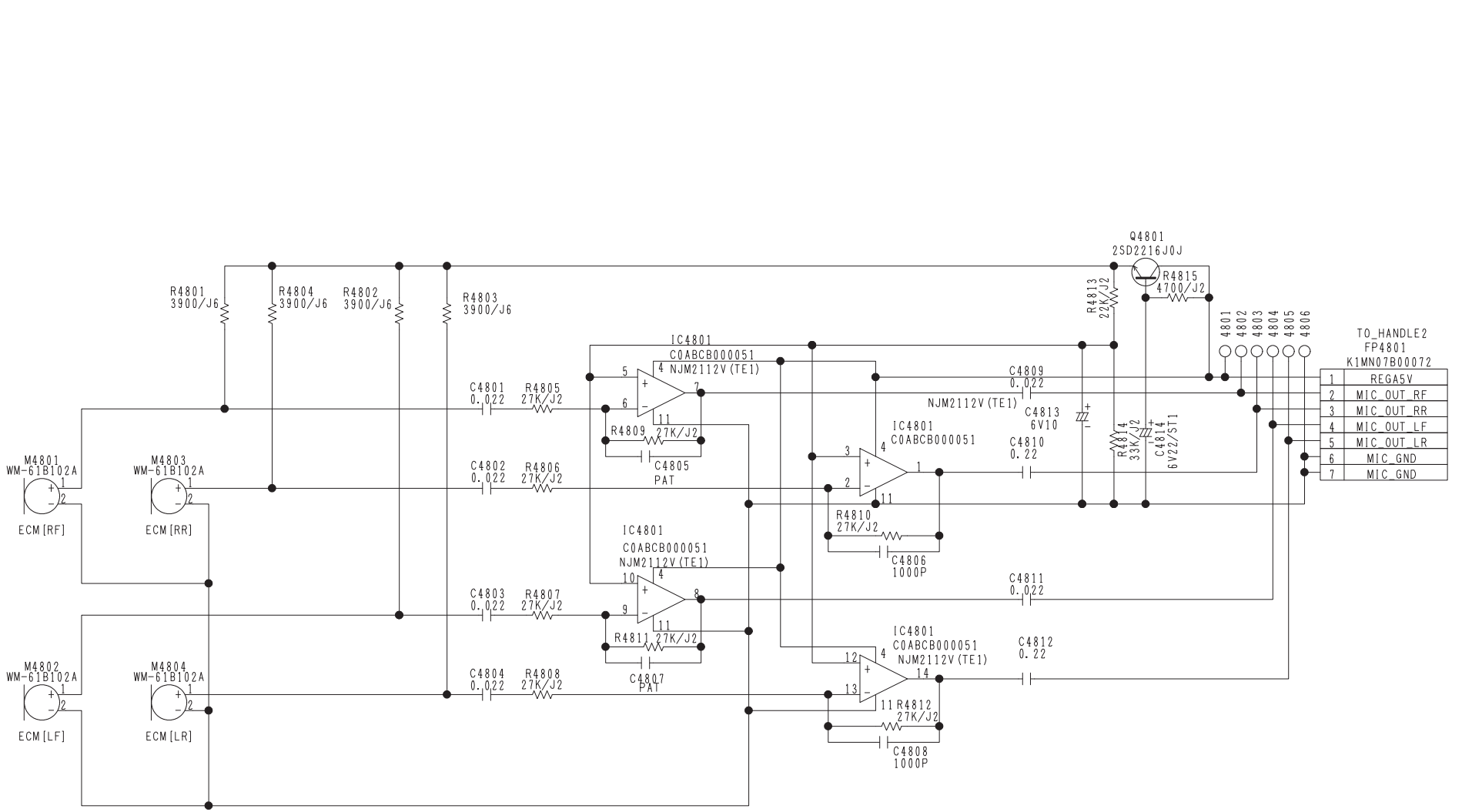


PAT=PATTERN ONLY
Ref No. 1800 Series.

COMPONENT NAME	POWER	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01956A		KR1A0054 (1/1)
		SCM042

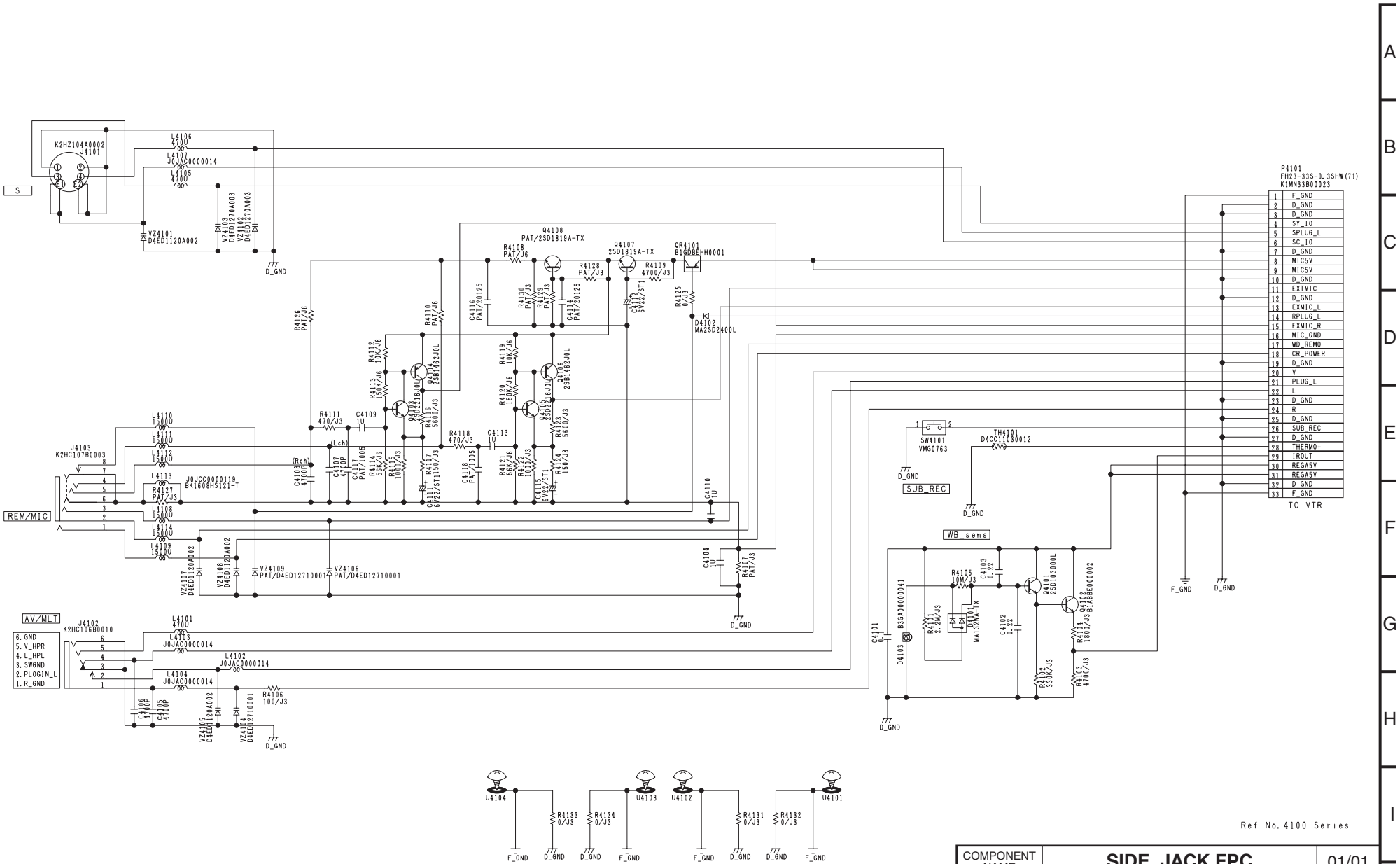
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



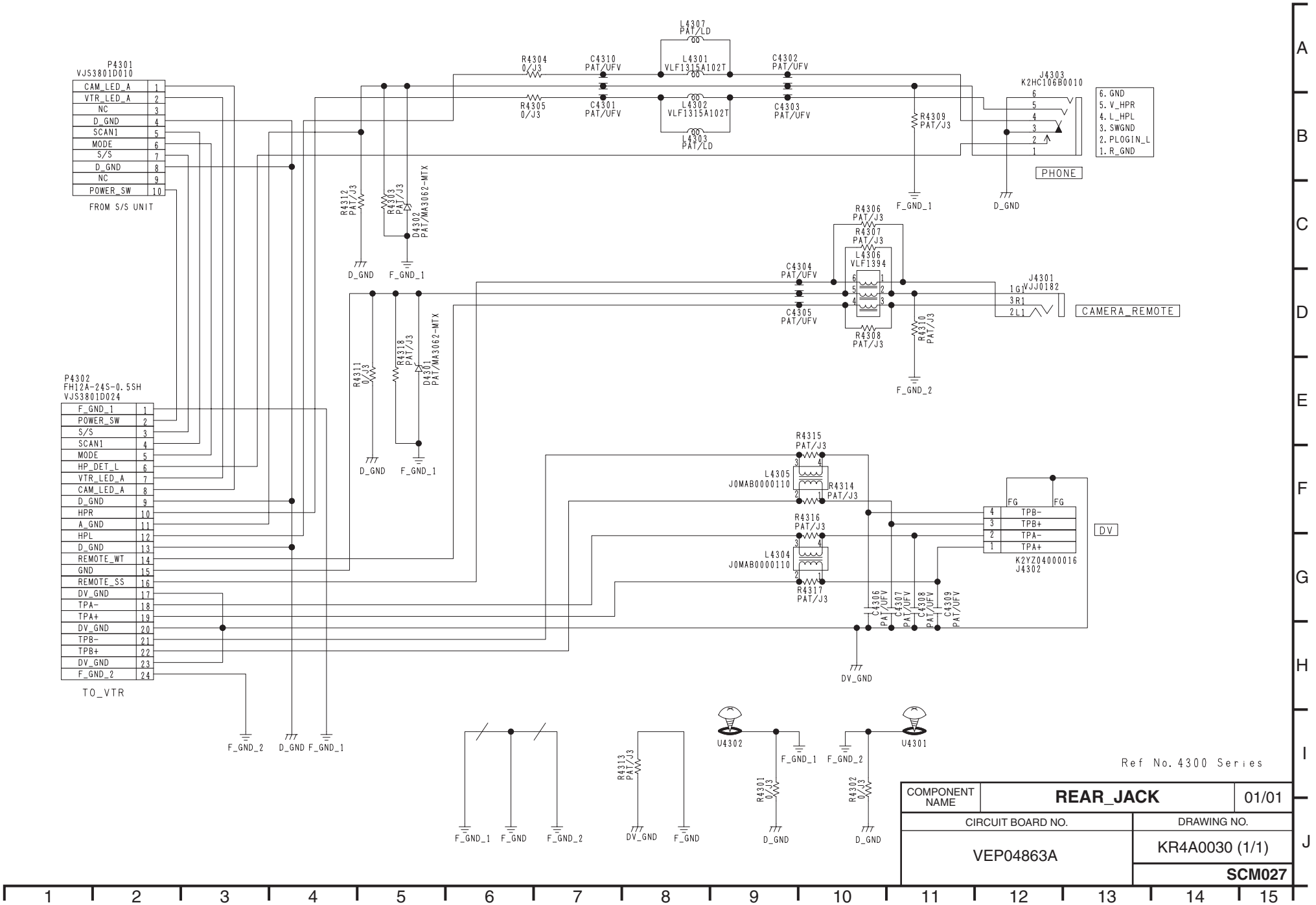
Ref No. 4800 Series.

COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04828A		KR4L33 (1/1)
		SCM032



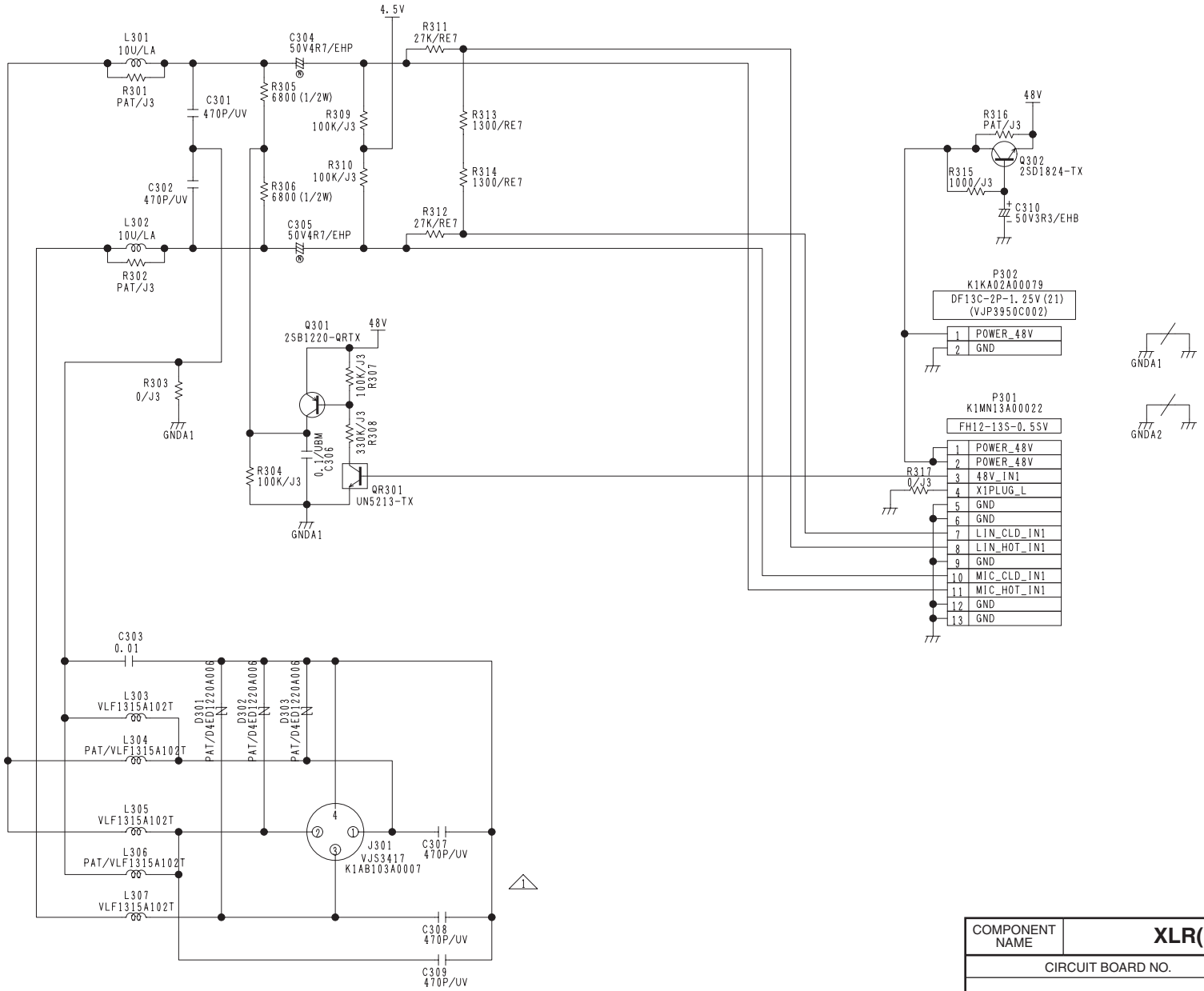
Ref No. 4100 Series

COMPONENT NAME	SIDE_JACK FPC	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04861A		KR4A0028 (1/1)
		SCM026

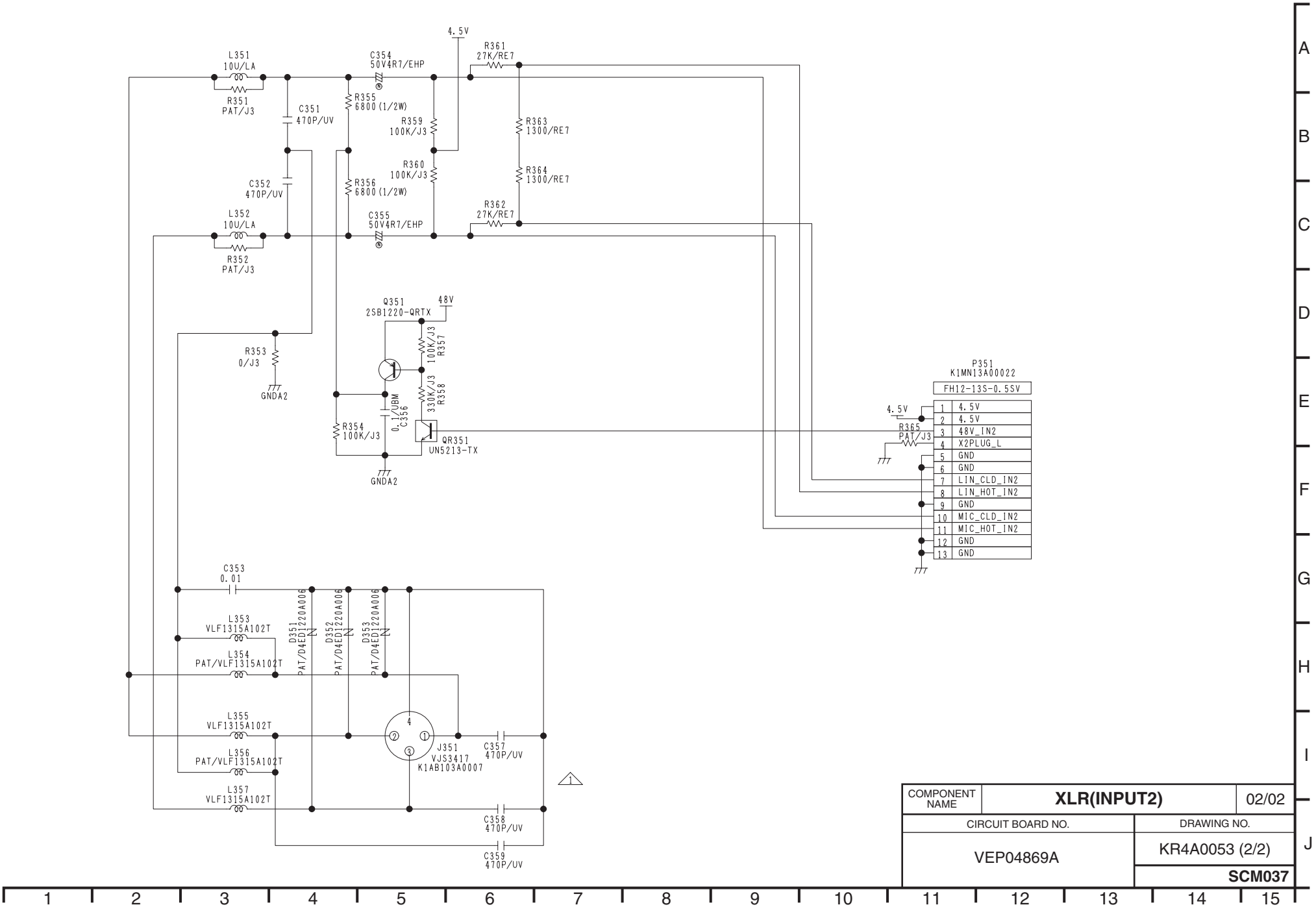


Ref No. 4300 Series

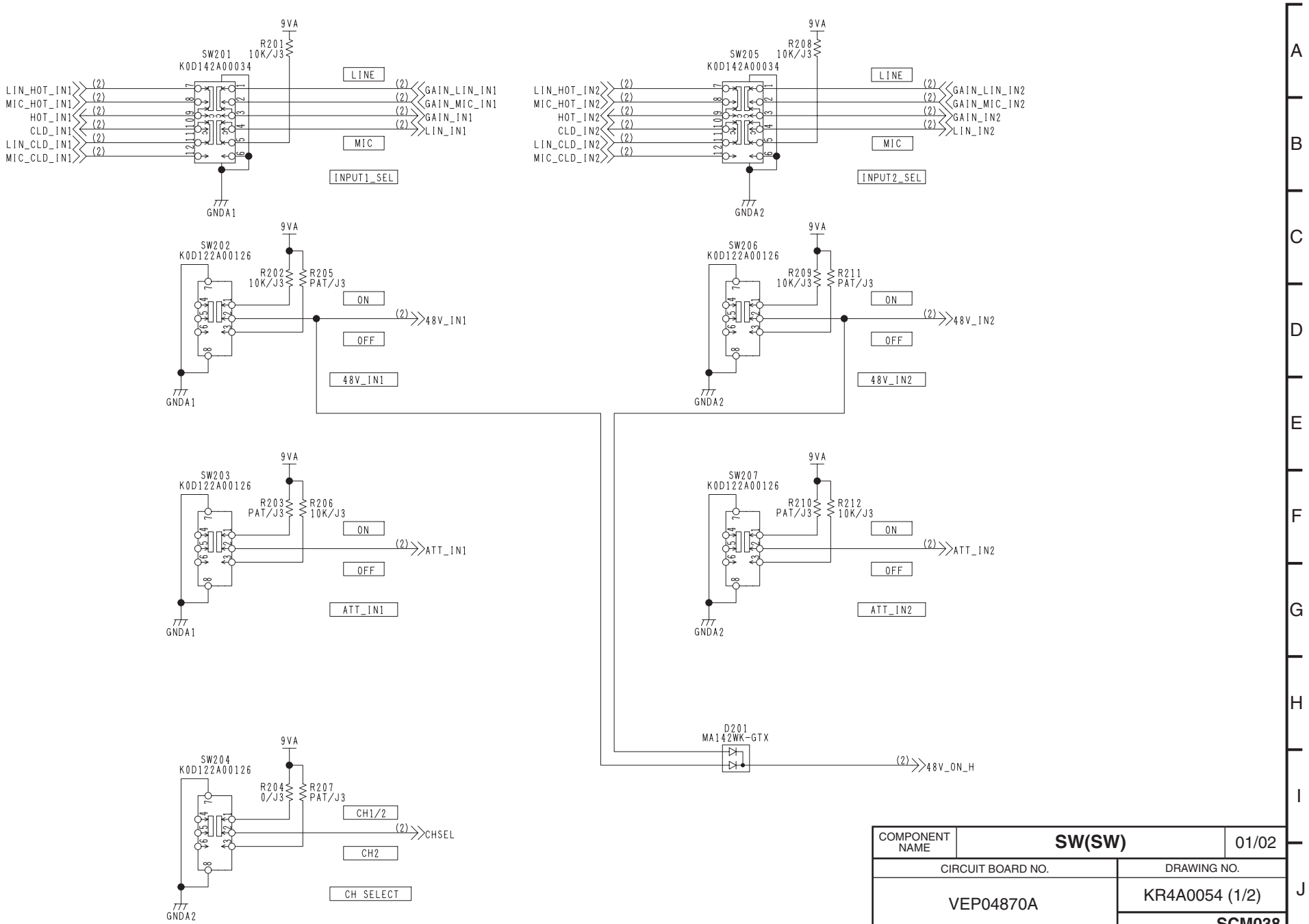
COMPONENT NAME	REAR_JACK	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04863A		KR4A0030 (1/1)
		SCM027



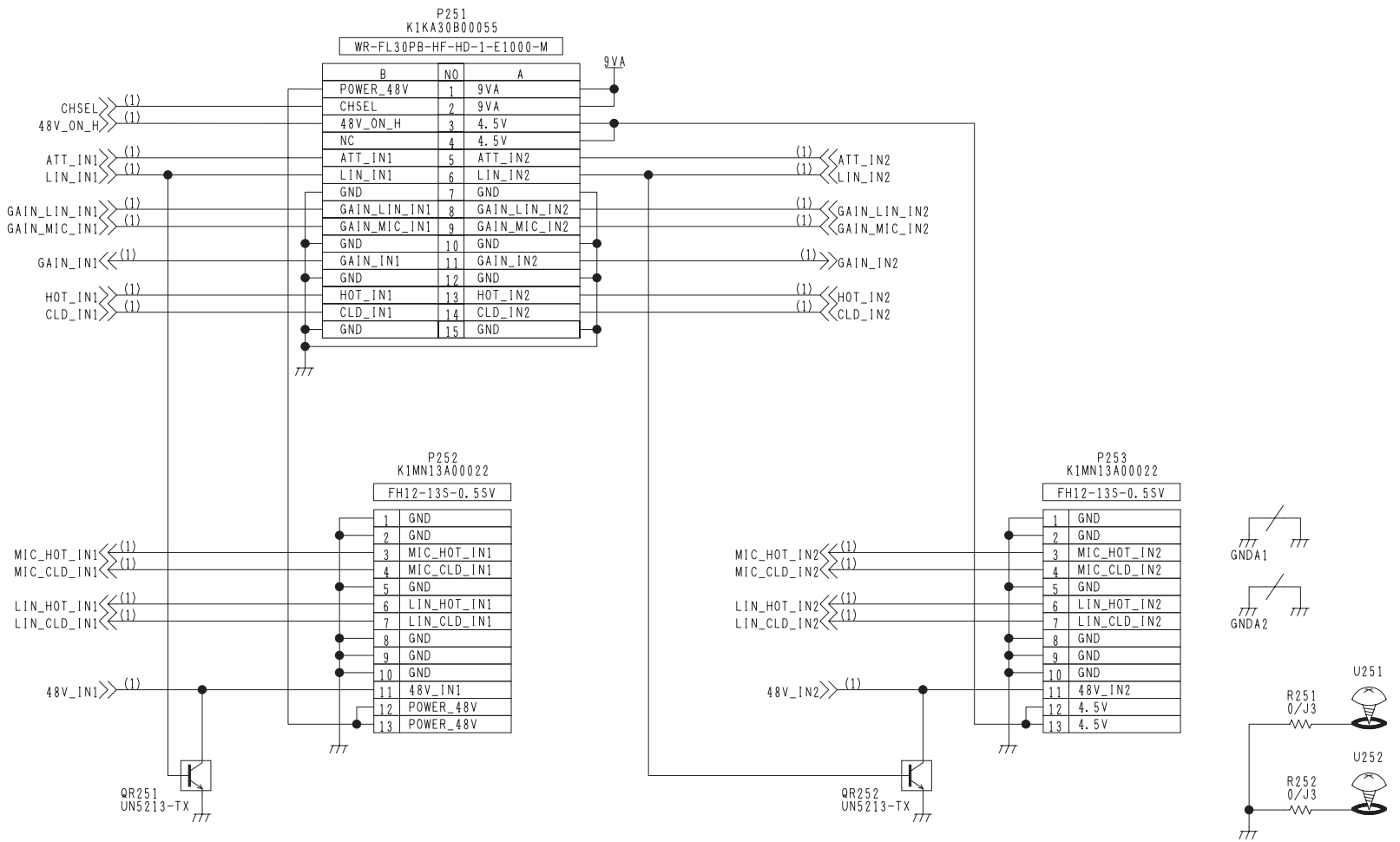
COMPONENT NAME	**XLR(INPUT1)**	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04869A		KR4A0053 (1/2)
		SCM036



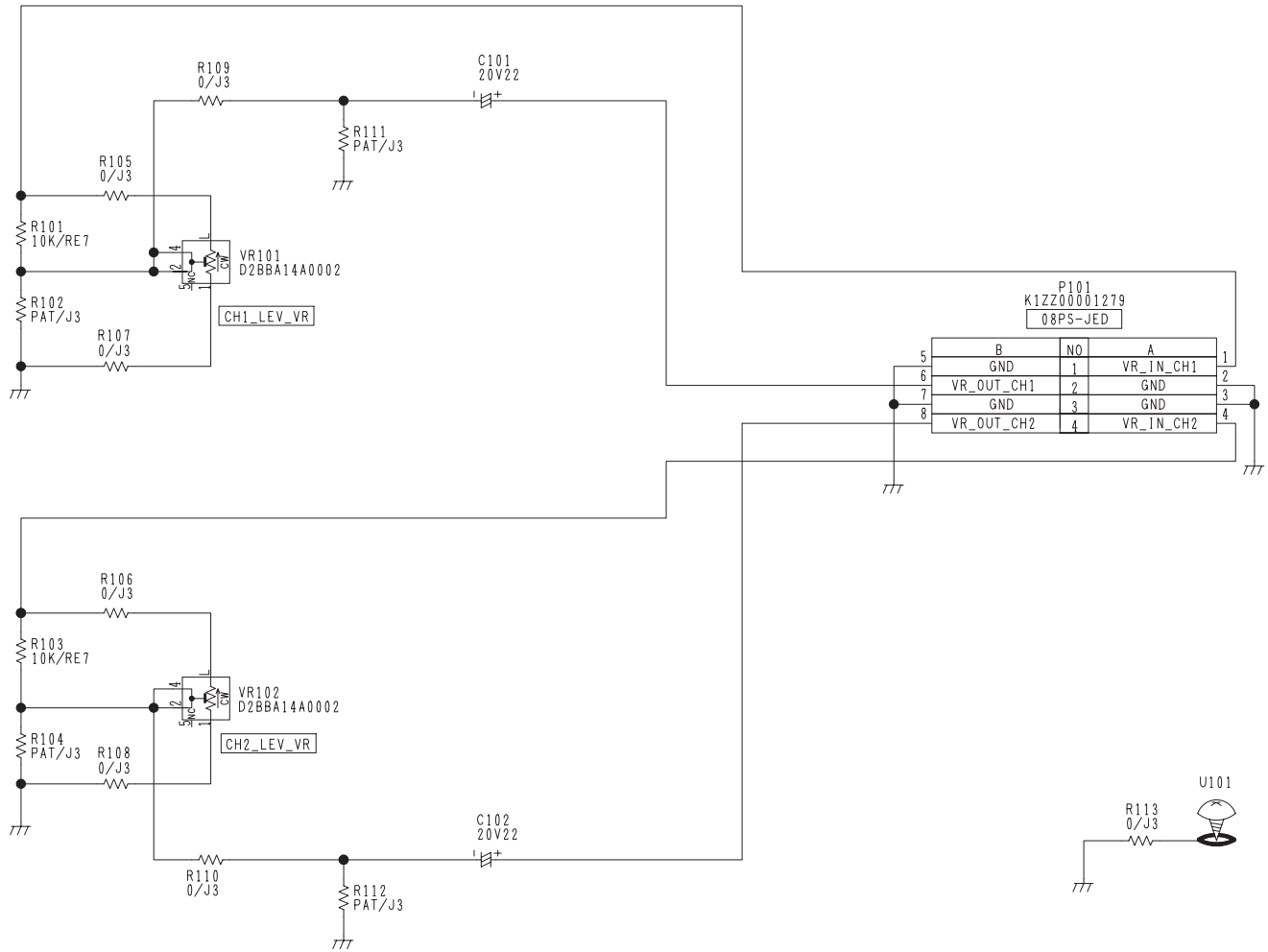
COMPONENT NAME	**XLR(INPUT2)**	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04869A		KR4A0053 (2/2)
		SCM037



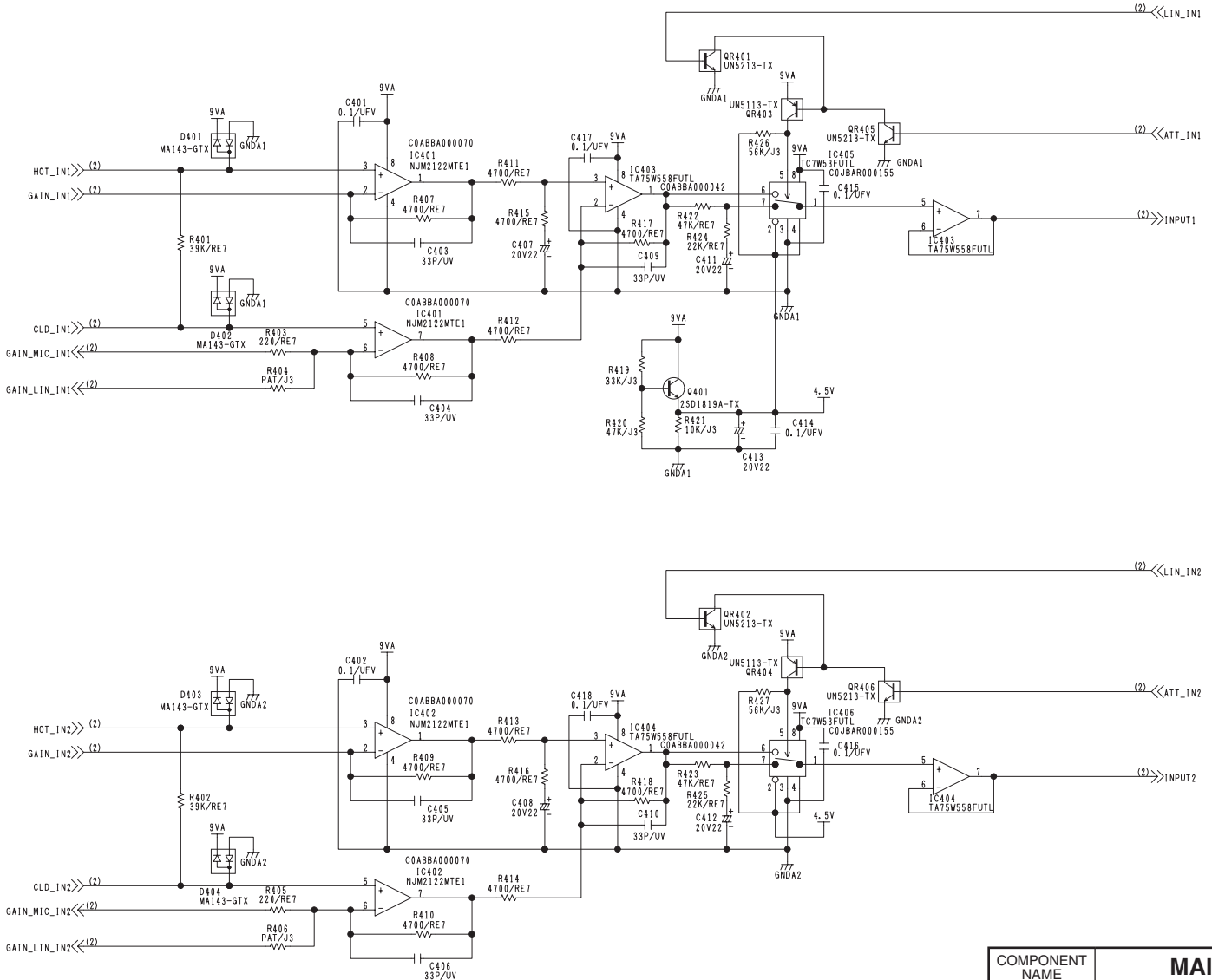
COMPONENT NAME	SW(SW)	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04870A		KR4A0054 (1/2)
		SCM038



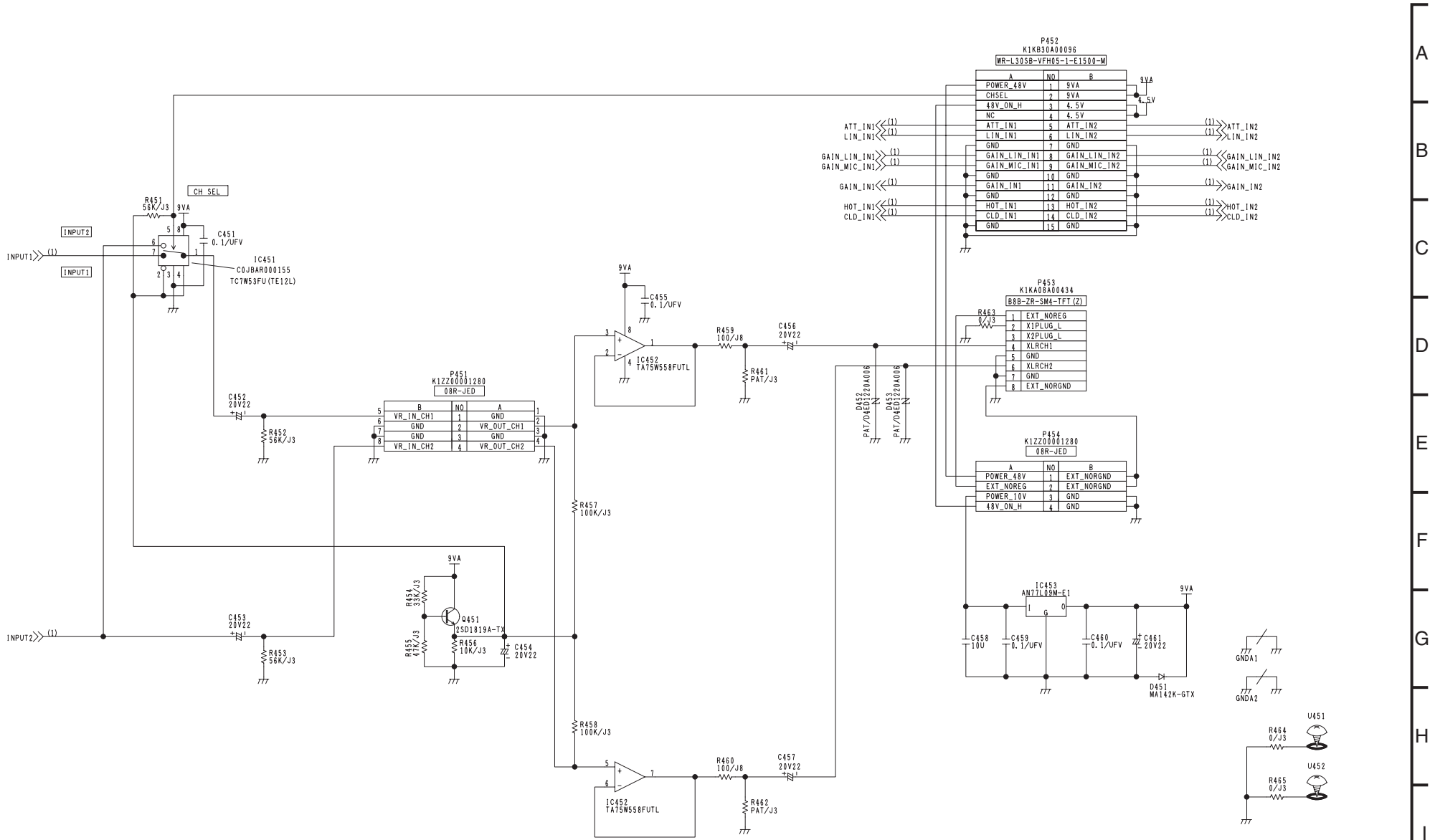
COMPONENT NAME	SW(CN)	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04870A		KR4A0054 (2/2)
		SCM039



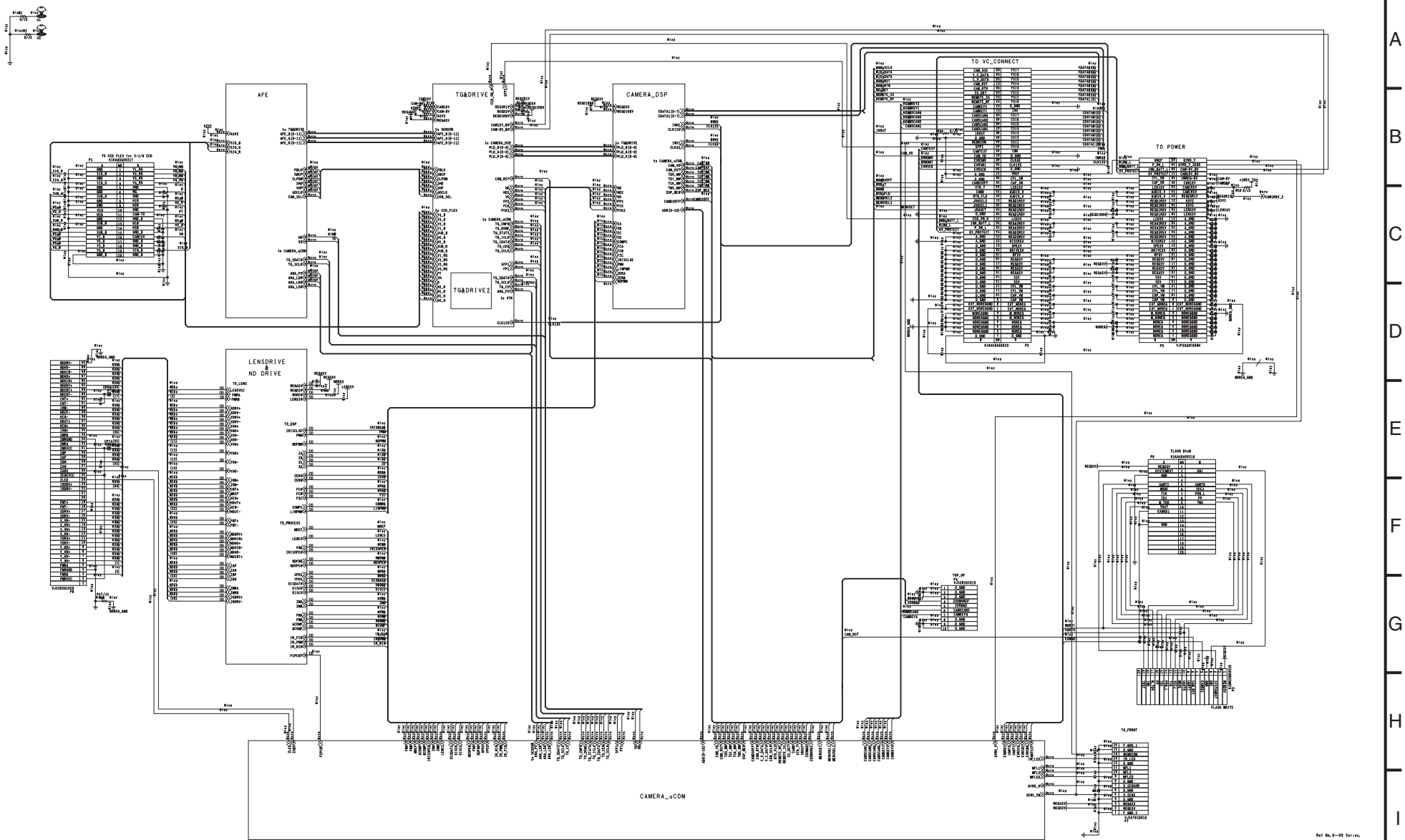
COMPONENT NAME	**VR**		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04871A		KR4A0055 (1/1)	
		SCM043	



COMPONENT NAME	MAIN(GAIN_SEL)	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04875A		KR4A0065 (1/2)
		SCM040



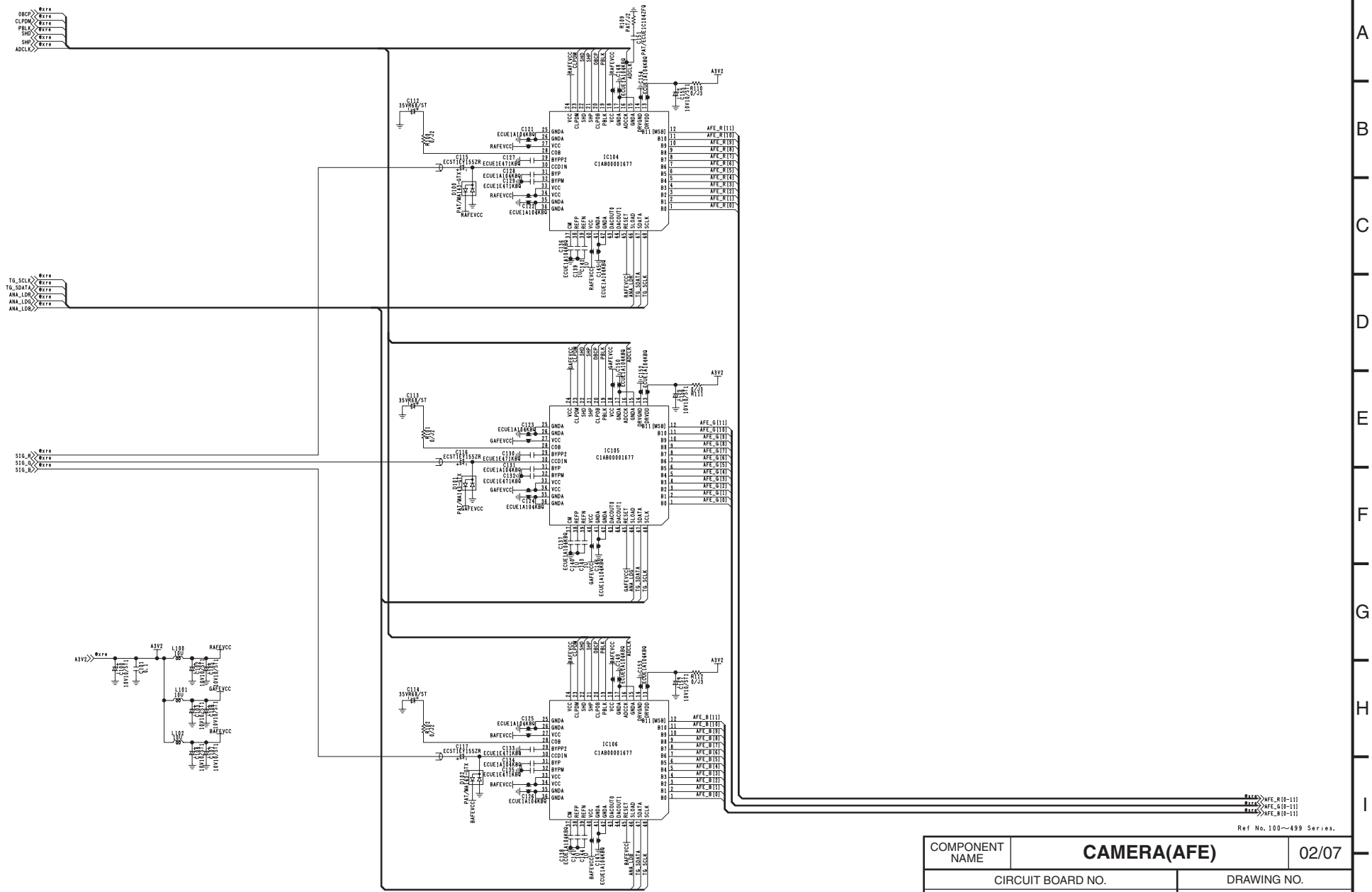
COMPONENT NAME	**MAIN(VR_I/O)**	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04875A		KR4A0065 (2/2)
		SCM041



COMPONENT NAME	CAMERA(SUB_CN)	01/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (1/7)
		SCM011

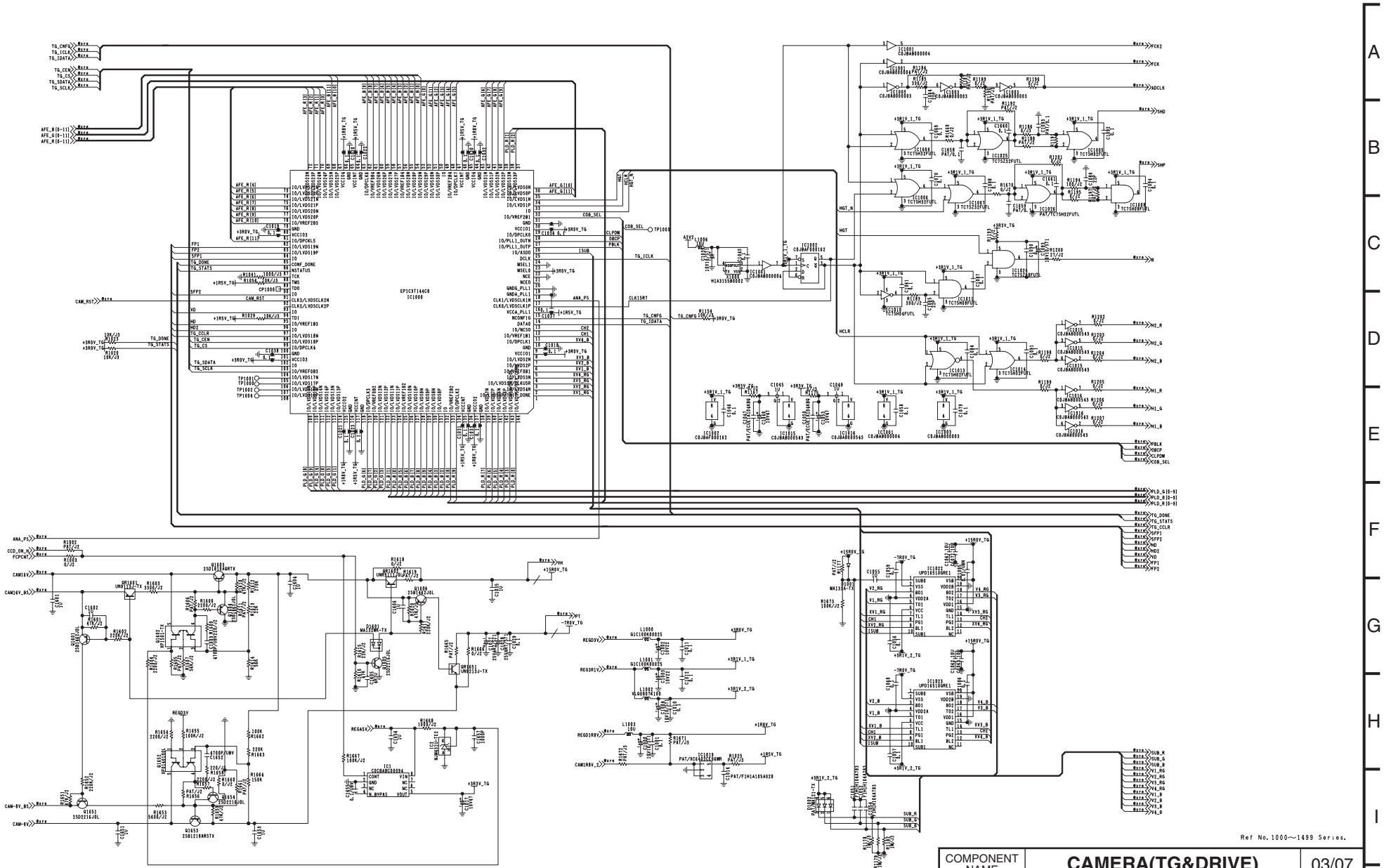
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



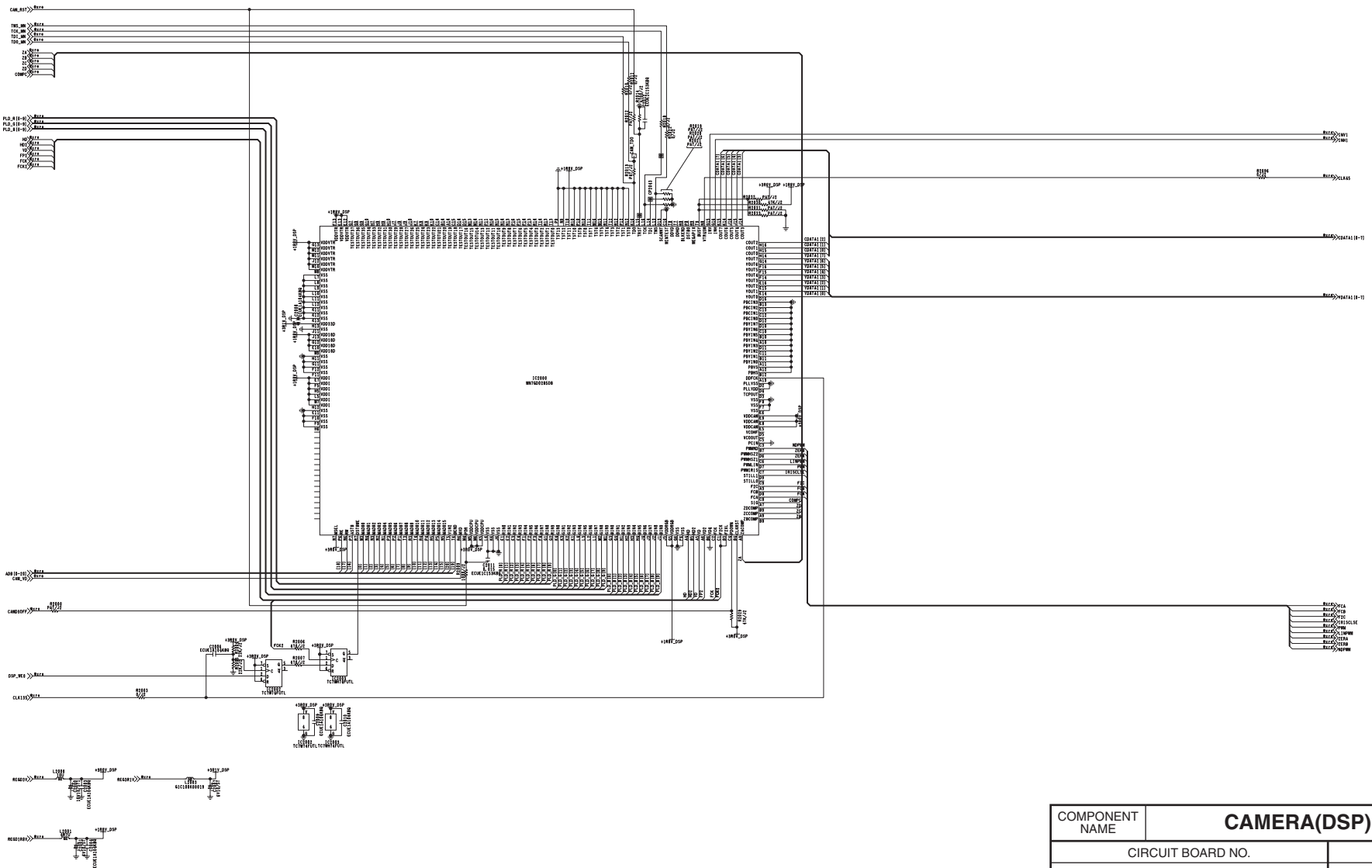
Ref No. 100～499 Series.

COMPONENT NAME	CAMERA(AFE)	02/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (2/7)
		SCM012



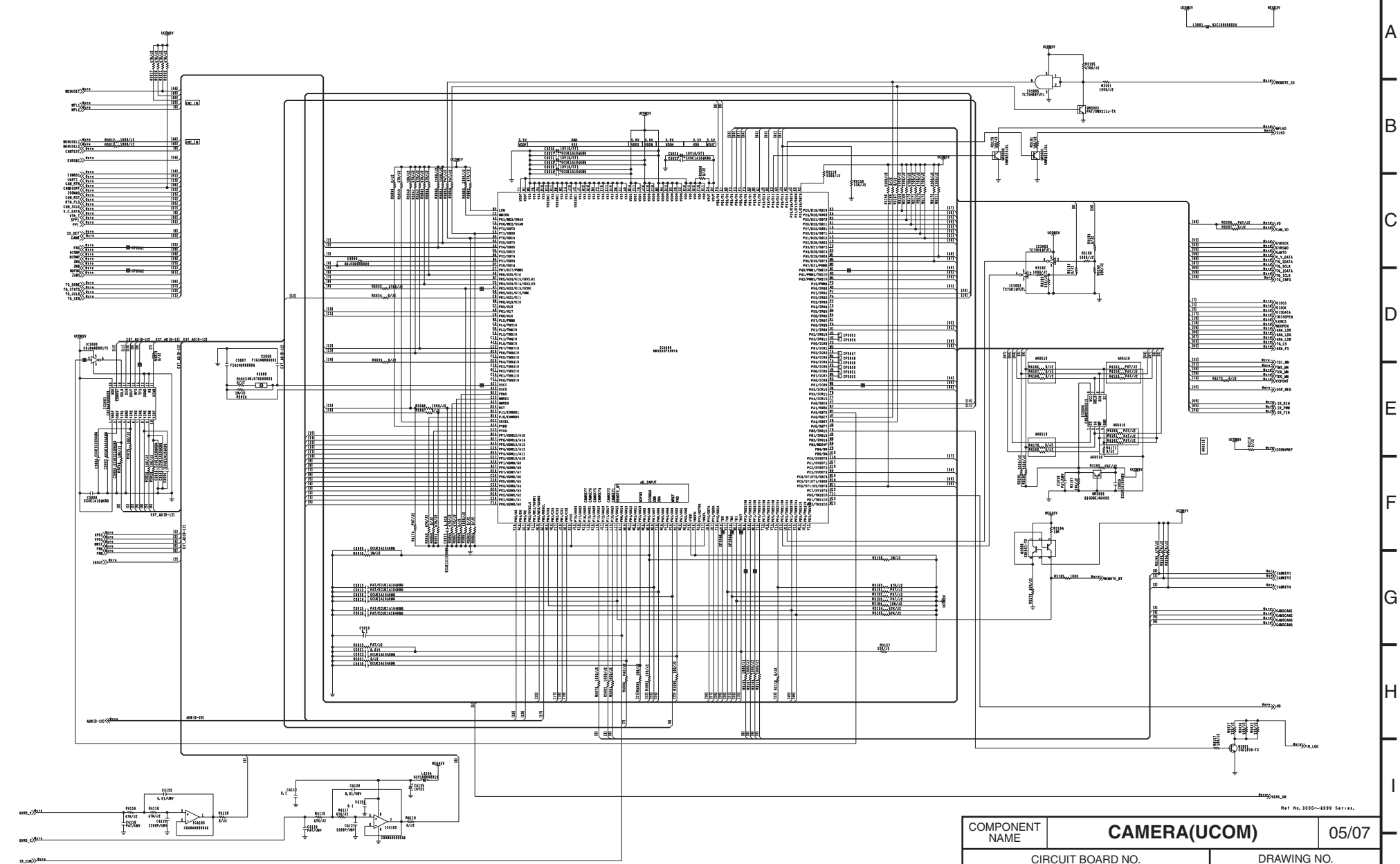
Ref No. 1000～1499 Series.

COMPONENT NAME	CAMERA(TG&DRIVE)	03/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (3/7)
		SCM013



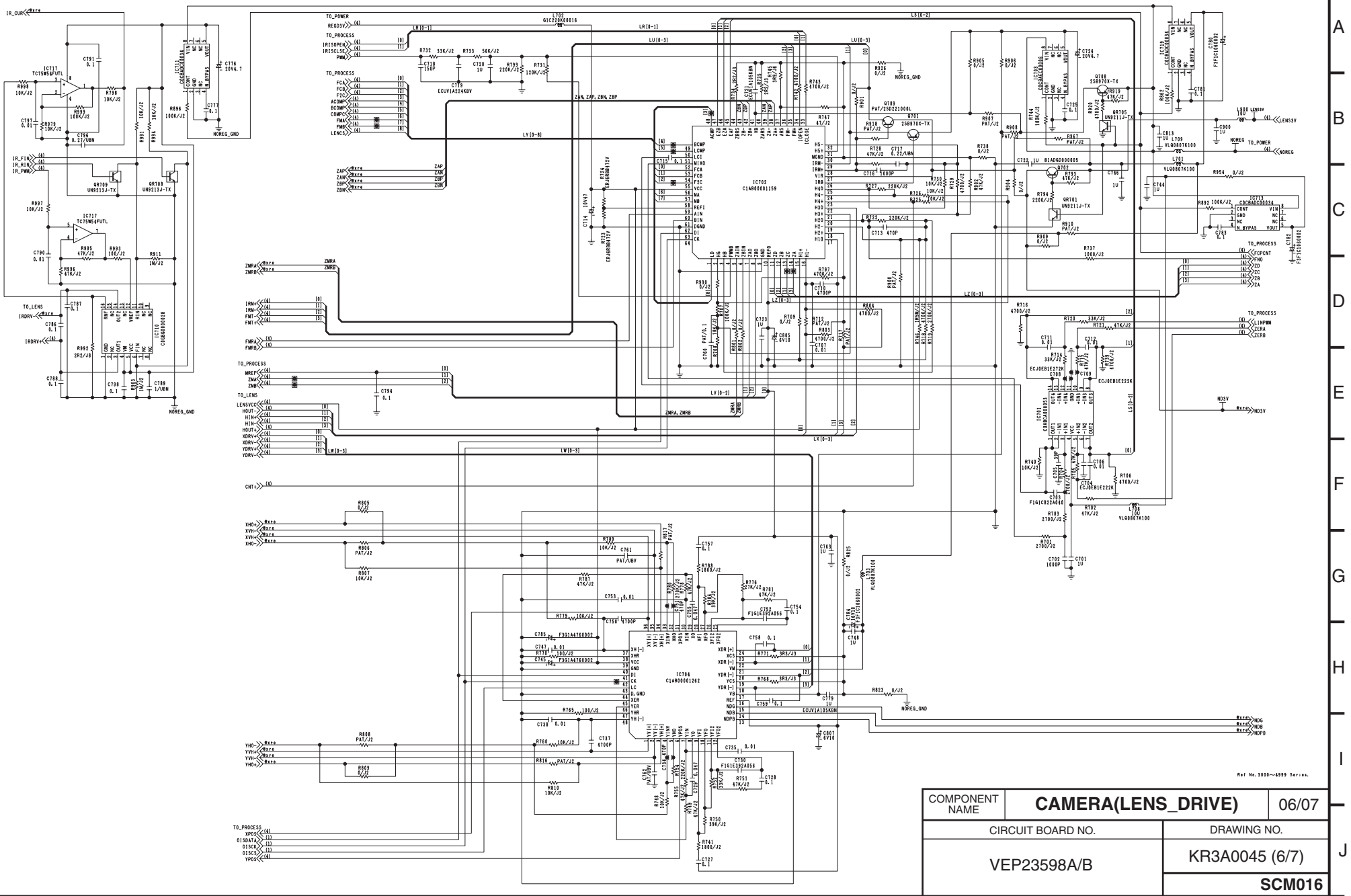
Ref No. 2000~2999 Series.

COMPONENT NAME	CAMERA(DSP)	04/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (4/7)
		SCM014



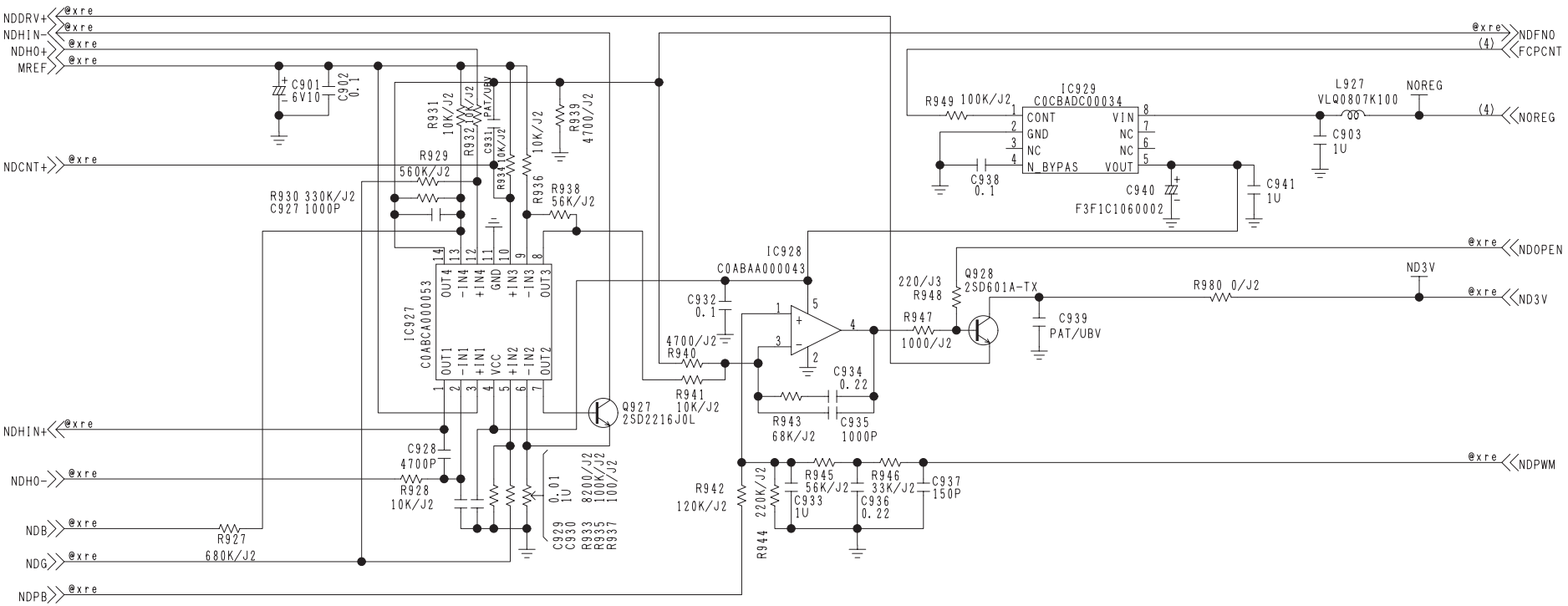
COMPONENT NAME	**CAMERA(UCOM)**	05/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (5/7)
		SCM015

Ref No. 3000~6999 Series.



COMPONENT NAME	CAMERA(LENS_DRIVE)	06/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (6/7)
		SCM016

Ref No. 3000~4999 Series.



Ref No. 900～999 Series.

COMPONENT NAME	CAMERA(ND_DRIVE)	07/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (7/7)
		SCM017